





Handwritten text, possibly a list or inventory, including phrases like "Hand and Cecil Co.", "Ligand", "Superior", "from Linfa", and "Read dates Vintome".

X

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Katharine D.

13. *Periclymenum* *perfoliatum* L.  
*perfoliatum* L. *perfoliatum* L.  
*perfoliatum* L. *perfoliatum* L.

Capitulum - Corolla

5. *Spizella socialis* *socialis*  
" " " *collaris*

*Reatus Capinus*

21

Dr. Clark in  
and copy

5000

12/20/18

14-5-54

7/3/77

20/11/18

St. James

od

Spencer

Success in the future  
is a matter of time.

James M. Brown

1890

112

7.02

2-20

1874

*Handwritten:* ...

CHS

1000

6440 1st



Stom - Styloid process

Styloid process -

Stylo - Hyoidens

Stylo - Pharyngeus -

in relation  
to Lingual art -

Genio Hyoidens

Genio Stylo glossus

Hyoid glossus -

and draw down  
to floor of mouth.  
protrude the  
tongue origin  
of mandible  
tongue tie -

Superficial fascia - of head.

Chondroid - Mucous lip

Labium -

apertures of head



relieve cases of  
origin from labor

Spasm

also on skin

14

H. Drury: Subcutaneous Rube 1/2 p.  
Serpent Pruriginous 1/2 p.  
Scrupus 95-

Intercaria Subcutanea - Intercaria  
only occurs in persons who are habitually  
contipated and who indulge freely  
in the pleasures of the table  
In constitutional Intercaria  
Solution - Intercaria of solution the  
of H. S. M.



THE  
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COMPARATIVE ZOOLOGY  
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CAMBRIDGE, MASS.



R  
617  
M

# SYLLABUS

OF

THE COURSE OF LECTURES

ON THE

PRINCIPLES AND PRACTICE OF SURGERY,

DEIVERED IN THE

JEFFERSON MEDICAL COLLEGE, PHILADELPHIA.

BY THOMAS D. MÜTTER, M. D.

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PHILADELPHIA:

J. H. JONES, PRINTER, NO. 34 CARTER'S ALLEY.

1848.

ST. MARY'S HOSPITAL  
MEDICAL LIBRARY

ENTERED, according to Act of Congress, in the year 1843, by  
THOMAS D. MÜTTER, M. D.  
in the Clerk's Office of the District Court of the United States in and for the  
Eastern District of Pennsylvania.



## NOTE.

The classification adopted in my lectures differs materially from that of any other surgeon, and its utility has been fully tested for several years. It will be perceived that I arrange all the subjects comprised in the course under *six* heads:

1. Under the *first*, I include *Inflammation*, its products and varieties, and *Wounds*.

2. Under the *second*, I shall consider all the diseases of the different tissues and organs, commencing with the *Bones*, and concluding with the *Skin*.

3. Under the *third*, the various affections of *Regions* may be considered.

4. The *fourth* division comprehends all *Tumours*, whether malignant or non-malignant.

5. In the *fifth*, the Diseases peculiar to *Females* will be considered.

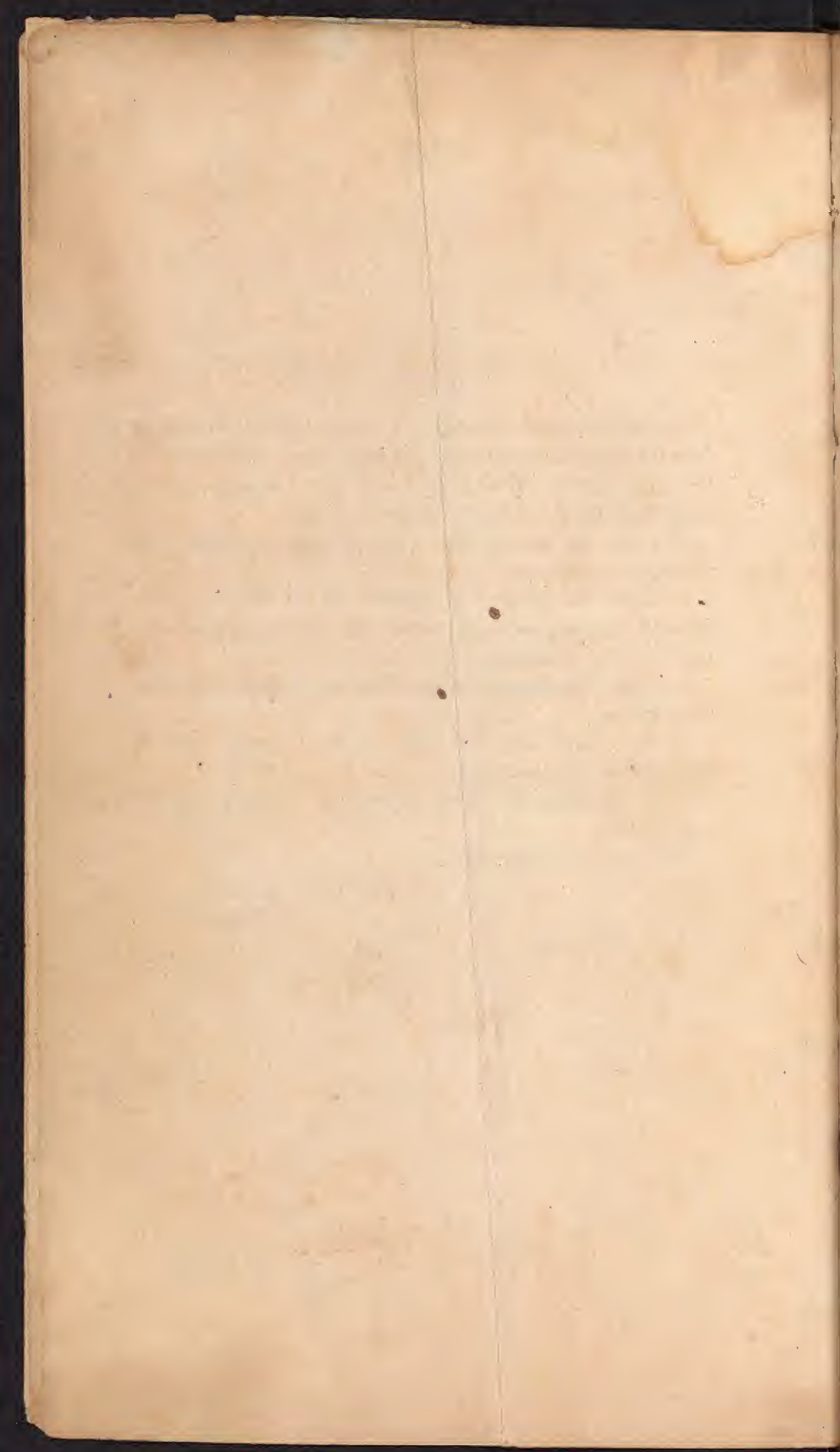
6. In the *sixth*, *Amputation*.

THOMAS D. MÜTTER.

244 Walnut Street.

Oct. 1, 1848.

5-1054 of Mary's Hoop  
507





Dunison	7 <sup>1</sup> / <sub>2</sub> to 10	Am
Houston	8 to 10	Am
Panecost	7 <sup>1</sup> / <sub>2</sub> to	Pm
Mitchell	7 <sup>1</sup> / <sub>2</sub>	Pm
Mutter	7 <sup>1</sup> / <sub>2</sub>	Pm
Miggs	9 to 10	Am & 8 to 10 Pm
Bache	7 <sup>1</sup> / <sub>2</sub>	Pm

Thomas. J. Dunott  
 Peffer College.

Ala del pñia January 1852

Electricity. Certain bodies such as  
Resin wax & glass Ambers &c. have  
the power of attracting light  
bodies and after contact taking  
possession of repelling them. This  
power is called electricity.

W. Mitchell - named according to interval  
between the paroxysm - one day or  
very common inter - Intermission  
most common - In some more rare  
A quartan fever appears to have been  
hereditary - The chills may be  
duplicated - one paroxysm may  
run into another - divided in to  
Chill fever and sweating stages  
very rare for chills to come 1<sup>st</sup> time  
collection of brain palid skin  
in fever gangrene your blood  
goes to brain &c - Sweating more  
or less prolonged - Intermission  
of stages may be very short  
in remittent all ways fever  
very easy of treatment - can alter  
the position of the brain by  
Hydrag. can not be certain the  
next paroxysm may not be a  
comparative one never permit the inter-  
mission to pass over without giving some  
the great med. air line - then Assas  
prep - and the Mineral & veg. Alloys  
the most generally suffice



best is to give medicine <sup>once or 5 times</sup> near the time when  
it is to occur give during intermission,  
and rapidly increase dose during the  
fit. attacks give sufficient quantity.  
Stomach more disturbed by small doses  
than large and the latter can be the  
stronger imp. The fever owes intensity  
to imp of malarious effect. Some  
of our southern states risk by large  
doses. Some men are so stout that ant. phos  
has but little effect here give large  
doses. Just like Hy of Chl but large  
doses produce full effect large doses  
do no more. when

R Gum Sulph - 30 xvj } is to give small dose  
Coch Aqua - Txx } Dose for 21 days  
And Sulph gr Lxx } there is an after  
S. Gum Hy } tendency to return  
S. Coch For V. way } every 1-114 x 100  
hour } If don't like to take

every day x or 10 Every 5 days -  
by opt to disturb stomach  
Unless patient lies in bed and  
distinct patient unaided  
but almost always some  
poison reproduced - to stop  
spring give x or 15 grs of Gum  
Sulph. Sometimes this will  
produce cramps or colic by  
or int app of Symp  
Sometimes must resort to some other  
preparation and use Ext Carb Flm  
Sometimes bark remains on stomach when  
Gum reject - Best way is to take  
1/2 ounce of bark in morning for 3 days

new irritability - avoid generally  
a dose above  $\frac{xx}{gr}$  if have  
an anemic give Cit Iron & Sh  
give  $\frac{x}{gr}$  in Sops to be two grs  
Aves - Valeriate of Gumma has  
also been used - in very atonic cases  
might give Stimulant a very  
powerful remedy is  
Serp Reg  $\frac{Zj}{gr}$  and give  
Serp Bic Carb  $\frac{Zj}{gr}$  after and  
other  $\frac{1}{2}$  hr

Use in two parts expected  
paraplegia where tendency to  
apoplexy use Citrate of Gumma  
or Valeriate of Gumma - Most  
to a cure which it cures an  
entirely apt to cure permanently  
generally use it in form of Food  
dissolving from 5 to 10 drops 3 or  
4 times a day - or give one ~~drop~~  
drop of him 4 or 5 times - Anom  
drop of acid of Quinine not  
to give - If Stomach is weak  
use by water - Starch and  
Epsom by rect with Gumma  
for 3 grs of age Salts Gumma grs  
by induction open grs  
on spine of the Starch

ham - Some give 20 grs calomel  
will often give a cure, but it  
will be necessary to continue



Iron has been much used (now  
Ferric phosphorous) some time  
ago (Sp. Lichen Z) good use  
when. (dise & drops) and sulphur  
combinate very often  
of other substances won't do  
in gastric cases carbon very  
helpful in doses 15-grs after a  
very good, attacks often pass  
path & to sleep given from  
from a two before pains  
metabolic preparations - is of  
use - see doses - only used  
in Quarters given as a  
medicine, consists of  
iron pyrites - Zinc  
in comb in Iron where great  
nervous pain - by lotions,  
bark of Apple tree better than  
Cornus florida bark make a strong  
decotion use as much as  
can bear, after cure very  
liable to return on any drop  
of the other.

Heat of pyrexia on large  
violent cases great dose  
of peruvian bark cold in  
warm him - give some lemon  
tea with - Senna & castor oil  
harsh cases use opium to settle  
nervous irritation common to  
combine with Stimulant

a tourniquet around from  
Scrub up very hard around  
the Thigh. Can we bleed  
for a ventilation in general  
not advisable if possessed  
hard take away little blood  
if congestion in any one organ  
use cups or leeches — when  
pain in back cup in back  
where pain goes or apply  
very hot applications —  
pressure on spine will  
give pain in arms & legs  
cup & leeches —



# SYLLABUS OF LECTURES.

## INFLAMMATION.

### DEFINITION.

LIABILITY OF TISSUES TO UNDERGO INFLAMMATION.—Some more liable than others. Some never attacked. Certain of the lower order of animals are supposed to be exempt from this action. Not as yet positively ascertained.

DIVISION OR CLASSIFICATION. First.—1. Acute. 2. Chronic. 3. Latent. Second.—1. Healthy. 2. Unhealthy.

Third.—1. Adhesive. 2. Œdematous. 3. Erysipelatous. 4. Gangrenous. 5. Specific. (Hunter's.)

Fourth.—1. Phlogosis. 2. Epiphlogosis. 3. Metaphlogosis. 4. Hyperphlogosis. (Lobstein's.)

SYMPTOMS.—1. Local. 2. Sympathetic, general, or constitutional.

(1.) *Redness, heat, swelling, pain, throbbing*, and an *alteration or suspension* of the natural secretions of the part. Although these symptoms are usually present, inflammation may exist without their development. Cite cases.

(1.) *Constitutional symptoms.*

### THEORIES OF INFLAMMATION.

### EFFECTS ON THE BLOOD.

TERMINATIONS OF INFLAMMATION.—1. Resolution. 2. Delitescence. 3. Metastasis.

EFFECTS OR PRODUCTS.—1. Effusion of serum. 2. Effusion of lymph. 3. Adhesion. 4. Hardening. 5. Softening. 6. Atrophy. 7. Hypertrophy. 8. Chemosis. 9. Suppuration. 10. Ulceration. 11. Gangrene and mortification.

CAUSES OF INFLAMMATION—TWO CLASSES. 1. Constitutional. 2. Local.

*First Head, or Constitutional.*—1. Plethora. 2. Local determinations. 3. Fever. 4. Diathesis. 5. Disordered state of function. 6. Suppression of natural discharges. 7. Atmospheric vicissitudes.

*Second Head, or Local.*—1. Those which produce *palpable injury to organization*—as mechanical injuries of every kind—mineral irritants—heat, friction, extreme cold, &c.

2. *Those which operate through the sentient extremities of the nerves*—as concussion, pressure, constriction, irritating substances, as mustard, cantharides, &c.

3. *Fluids which produce a peculiar impression and give rise to a specific action or inflammation*—as decomposed animal matter, pus or serum from specific diseases. The most familiar examples of the operation of this class are, *dissecting wounds, pustule maligne, and glanders.*

4. *Those which suddenly change the natural feelings of the parts.* For example, drawing off the water in dropsy will cause inflammation of the serous cavity in which it has been collected. Peritonitis frequently comes on after the delivery; cystitis after the operation for stone, &c.

DIAGNOSIS.

PROGNOSIS.

TREATMENT.—Numerous indications are presented, most of which require to be fulfilled in nearly every case. They are modified of course by the peculiarities of the attack, the age, and the strength of the patient, &c.

1. We must endeavor to remove the cause. An exception to this rule is occasionally met with in surgery, when bullets, &c. lodge deeply.

2. We must diminish the action of the heart by nauseants, digitalis, general and local abstraction of blood, by venesection, arteriotomy, scarification, cups, and leeches.

3. We must reduce the sensibility of the part, and if possible cause constriction of its vessels, by cold—ice, irrigation, immersion.

4. When cold fails to reduce sensibility, apply steam, fomentations, poultices, warm water dressings, immersion in warm water, &c.

5. We must restore the secretions, if possible, by diaphoretics, mercury, iodine, warm baths, &c.

6. We must remove the original disease by counter-irritation, especially when it becomes chronic. For this we use irritating lotions, blisters, sinapisms, tart. antim., croton oil, issues, seatons, and moxas.

7. When the vessels are turgid, we must cause their contraction by astringent lotions, aided by scarifications, leeches, &c.

8. We must also prevent the afflux of blood into the part by position, frictions, and rest. *Pressure*, recommended by some, is generally a painful remedy, except in chronic cases.

9. We must always bear in mind the influence of the mind upon the body, and endeavor to cheer up the patient by every possible means.

## PRODUCTS OF INFLAMMATION.]

### I. SEROUS EFFUSION.

1. *Nature of this fluid.*

2. *Kind of inflammation usually producing it.*

3. *Time requisite for its separation.*

4. *Local phenomena.*

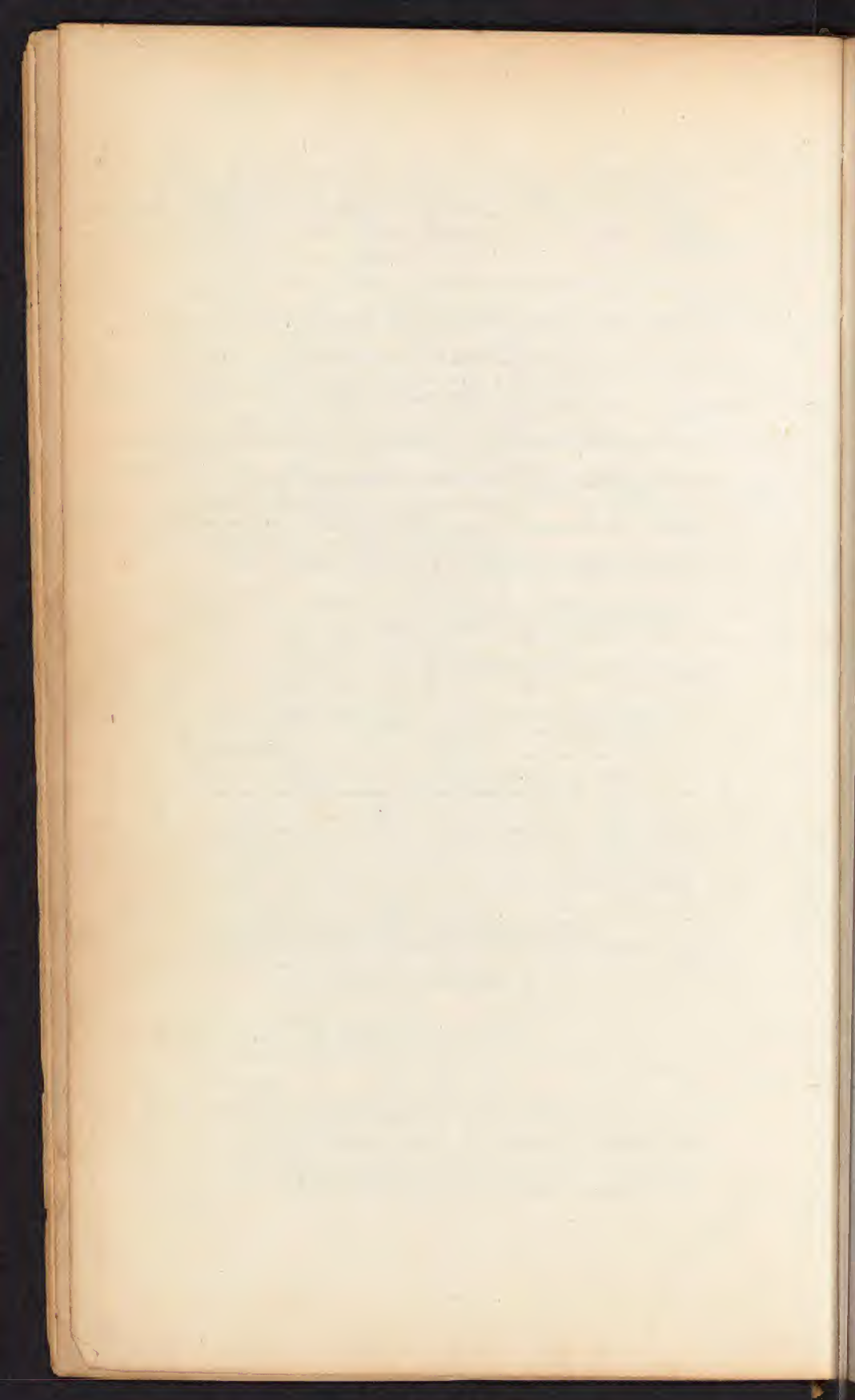
5. *Effects upon parts containing it and those in their vicinity.*

6. *Diagnosis.*—May be confounded with dropsy arising from other causes.

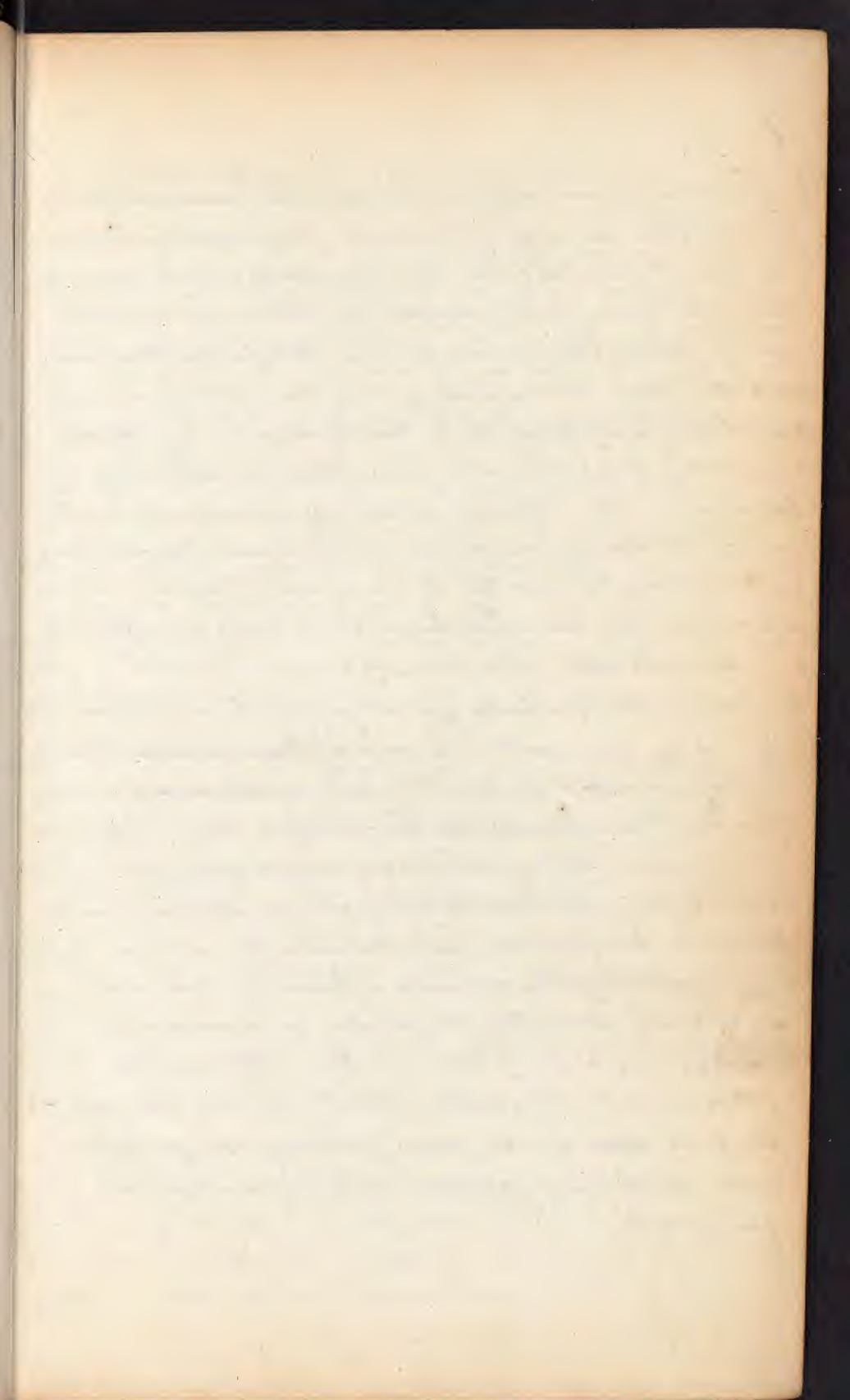
7. *Diseases produced by serous effusion.*—Hydrocephalus, hydrophthalmia, hydrocele of the neck, hydrothorax, hydropericardium, ascites, ovarian dropsy, oedema, anasarca, skin bind of children, hydrocele of the tunica vaginalis testis, hydrarthrus.











1.  
4 operations generally performed on <sup>trachea</sup> ~~neck~~ include  
name. Often we are obliged to perform these oper  
2 In order to be certain in our diagnosis we  
should use the grooved needle, unless the  
tumor pulsates, when it might be an aneurism.  
push the tumor to one side if over an artery as the  
pulsation may have been ~~the~~ caused by this.  
Generally is an elastic, smooth on its external face,  
tumor very slightly redened sometimes as others  
not, if the diagnosis proves it Hydrocele, puncture  
with trocar let out the fluid and apply  
pressure to the sac. Sometimes these measures fail  
and then use the seton (small one)

5. Paracentesis Articulæ for Hydrop. Articulæ. This  
is generally the result chronic inflammation - brown  
color of concavities, elastic feel no ~~swelling~~ actual  
pain and uniform swelling, does not, as the  
introduction of air will act as a powerful  
irritant. use then constitutional remedies, and  
pressure. 6. Anasarca & Edema this is an  
infiltration of the cellular tissue with water  
and urine. Sometimes produce enormous  
swelling, a puncture of the skin will  
often relieve the swelling but be very careful  
for fear ~~and~~ of gangrene following the puncture  
Make the Scarifications few in number and  
far apart.



in the form of tracheotomy though each has its own  
on trachea for the removal of foreign bodies or  
for adema or anasarca of Pharynx. In making  
diagnosis we should also enable to find out what  
part of either of the passages it occupies. Now if  
we know that the foreign body has been swallowed  
during an inspiration, it is probably it has lodged  
in the ~~Pharynx~~ trachea. In recent cases we can hear  
the body moving. Certain bodies cannot pass  
into the trachea as sand bar — If operate for  
extraction of Foreign body always perform the  
operation of Tracheotomy. If patient was eating at  
time of accident generally lodges in the Pharynx. 1<sup>st</sup>  
Assure p - no danger and by calming the mind  
you will lessen his convulsive struggles. If possible  
extract with Birds Gullet forceps if this can't be  
done and the substance susceptible of it, push it  
down with probang or get it out if possible by means  
surreal at the end. Or sometimes we use the probang  
with a skin of thread tied on one end, and draw  
out the body by entangling it in the threads.  
If great danger of suffocation open the Crico  
Thyroid space. If substance indigestible or  
button get it out or force down if this is impossible  
but if exper don't leave your patient until  
you have prepared him against the poisonous  
action of acetate of Copper which is formed by  
its union with the acids of stomach by ordering  
aprop, diet. & Puracutis Colic operation  
for Hydrocele of the neck. Diagnosis. A large  
tumor, formed upon neck & running down

## Effusion of Coagulable Lymph.

1. Though usually the result of acute & sometimes chronic Inflamm. will produce it. 7. It may if thrown into a cavity glue together its walls. If in cellular tissue will form tumors or Elephantiasis. If in the white tissue may cause it to become opaque, as in cornea making corneal speck. 6. How is it that this plasma forms hard or soft tissue, 1<sup>st</sup> the answer. A creamy fluid slightly yellow and very tenacious, in 11  
3 kinds of lymph. Fibrinous Corpuscular & Mixed. 3 circumstances modify it. 1 state of blood, 2. Tissue involved & 3. Grade of Inflammation.  
composed of serum and globules, 2. Haze of devel. This plasma is thrown into microscopical fibres is then Fibrination. 3. Have showing themselves, the nucleated cell, synonyme Exudation Corpuscles organic cells. 4. In various parts have blood vessels ramifying known by numerous <sup>finger</sup> red points appearing in mass, which are but joints or ramifications of neighboring vessels, then follow nerves absorb be necessary for the mature organization. Suppose the cells fail to reach maturity what becomes of them, they die the partially <sup>created</sup> ~~softened~~ tissue breaks down and we have pus. Fibrinous lymph have adhesion. Corpuscular does not. Mixed that he is about fair. Croupy membrane is corpuscular  
///

/// Adhesion We will pass over since we have so many ways of illustrating it



*Elephantiasis is Gr. Infl. of cellular tissue & c.*

( 7 )

8. Operations required to relieve these affections.

- (1.) Paracentesis capitis, in hydrocephalus.
- (2.) Paracentesis oculi, in hydrophthalmia.
- (3.) Tracheotomy, in oedema of the glottis.
- (4.) Paracentesis colli, in hydrocele of the neck.
- (5.) Paracentesis thoracis, in hydrothorax and hydropericardium.
- (6.) Paracentesis abdominis, in ascites and ovarian dropsy.
- (7.) Paracentesis scroti, in hydrocele of the tunica vaginalis testis.
- (8.) Paracentesis articuli, in hydrarthrus.
- (9.) Puncture of the skin, in oedema and anasarca.

## II. EFFUSION OF COAGULABLE LYMPH.

1. Nature of this fluid. *3 kinds according to circumstances what are they*  
2. Kind of inflammation producing its separation.—Must not be too high or we have pus; nor must it be of too low a grade. There is evidently a secreting point.

3. Time required for its formation. *See before in 3d. 1st. 2nd. 3rd. 4th. 5th. 6th. 7th. 8th. 9th. 10th. 11th. 12th. 13th. 14th. 15th. 16th. 17th. 18th. 19th. 20th. 21st. 22nd. 23rd. 24th. 25th. 26th. 27th. 28th. 29th. 30th. 31st. 32nd. 33rd. 34th. 35th. 36th. 37th. 38th. 39th. 40th. 41st. 42nd. 43rd. 44th. 45th. 46th. 47th. 48th. 49th. 50th. 51st. 52nd. 53rd. 54th. 55th. 56th. 57th. 58th. 59th. 60th. 61st. 62nd. 63rd. 64th. 65th. 66th. 67th. 68th. 69th. 70th. 71st. 72nd. 73rd. 74th. 75th. 76th. 77th. 78th. 79th. 80th. 81st. 82nd. 83rd. 84th. 85th. 86th. 87th. 88th. 89th. 90th. 91st. 92nd. 93rd. 94th. 95th. 96th. 97th. 98th. 99th. 100th. 101st. 102nd. 103rd. 104th. 105th. 106th. 107th. 108th. 109th. 110th. 111th. 112th. 113th. 114th. 115th. 116th. 117th. 118th. 119th. 120th. 121st. 122nd. 123rd. 124th. 125th. 126th. 127th. 128th. 129th. 130th. 131st. 132nd. 133rd. 134th. 135th. 136th. 137th. 138th. 139th. 140th. 141st. 142nd. 143rd. 144th. 145th. 146th. 147th. 148th. 149th. 150th. 151st. 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## PLASTIC SURGERY.

*Definition.*

*Synonymes.*—Autoplastic surgery; anaplastic surgery; animal grafting; *chirurgia curtorum per insitionem*; morioplasty; heteroplasty; taliacotian operation, &c.

*History.*

*Indications for the employment of plastic surgery.*

*Circumstances which favor the success of the operation.*

*Circumstances which forbid its employment.*

*Result of these operations.*—1. Favorable. 2. Unfavorable.

*Treatment after a plastic operation.*

*Classification.*—Several general groups. 1. Operation intended to restore parts either entirely or partially separated from their original connection.

2. Operations intended to restore lost organs by a process similar to vegetable grafting, and hence called the "*operation by transplantation*." The new flap is here entirely detached from its original position.

3. The operation by "*transposition*;" the flap is here left attached by a pedicle, and is taken from parts either in the vicinity or at some distance from the seat of disease.

Under each of these general heads are ranged the different special methods of performing the different plastic operations. Under the first, we have the operation after cancer, the removal of cicatrices, the loss of fingers, &c. Under the second, the operations by "*migration of the flap*," "*detachment and migration*," &c. Under the third, the operations by "*glissement du lambeau*, or *sliding the flap*," "*Roulement*, or *rolling the flap*," "*inversion of the flap*," &c. &c.

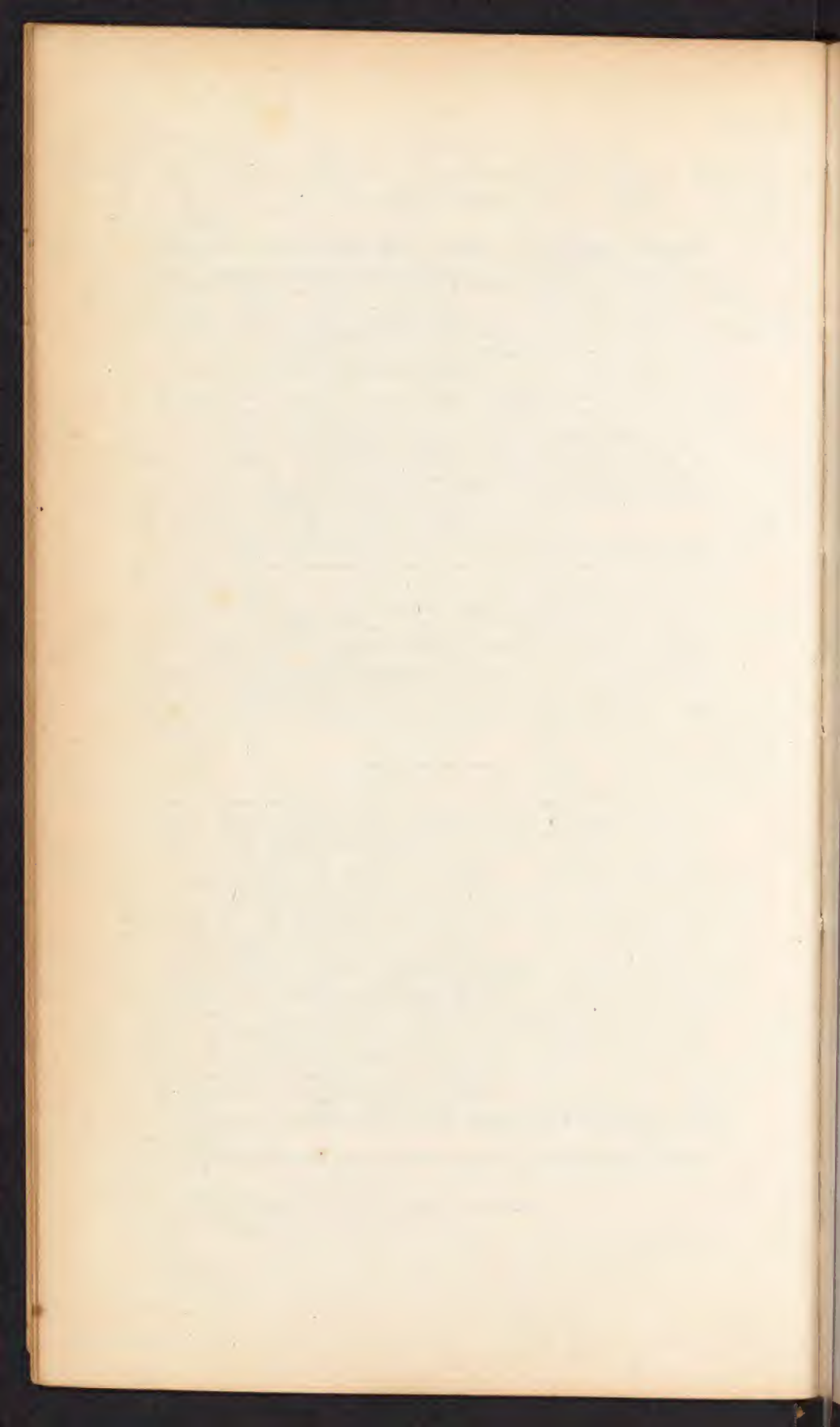
## PLASTIC OPERATIONS.

Each of these takes its name from the part to be restored.

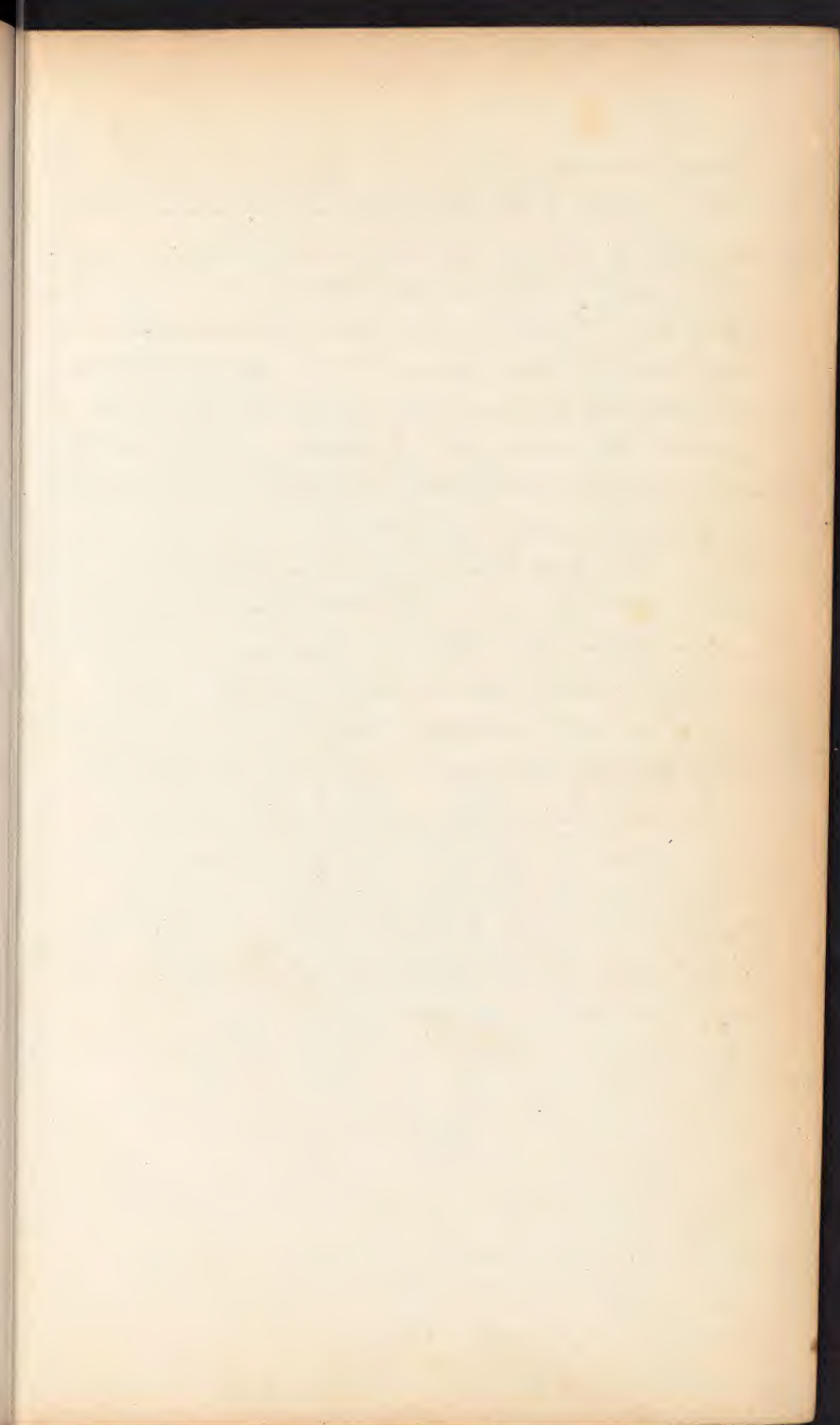
1. Cranioplasty, or restoration of the soft parts and bones of the head.
2. Otoplasty, or restoration of the ear.
3. Rhinoplasty, or restoration of the nose.
4. Blepharoplasty, or restoration of the lids.
5. Keratoplasty, or restoration of the cornea.
6. Cheiloplasty, or restoration of the lips.
7. Genioplasty, or restoration of the cheeks.
8. Staphyloplasty, or closure of the soft palate.
9. Palatoplasty, or closure of the palatine vault.
10. Bronchoplasty, or closure of the larynx or trachea.
11. Urethroplasty, or restoration of the urethra.
12. Oscheoplasty, or restoration of the scrotum.
13. Cystoplasty, or restoration of the bladder.
14. Enteroplasty, or restoration of a bowel.
15. Elythroplasty, or restoration of the vagina in vesico-vaginal, or recto-vaginal fistula.
16. Plastic operations for the restoration of parts about the thorax and abdomen.
17. Plastic operations after the removal of cicatrices.
18. Plastic operation for the cure of hernia.

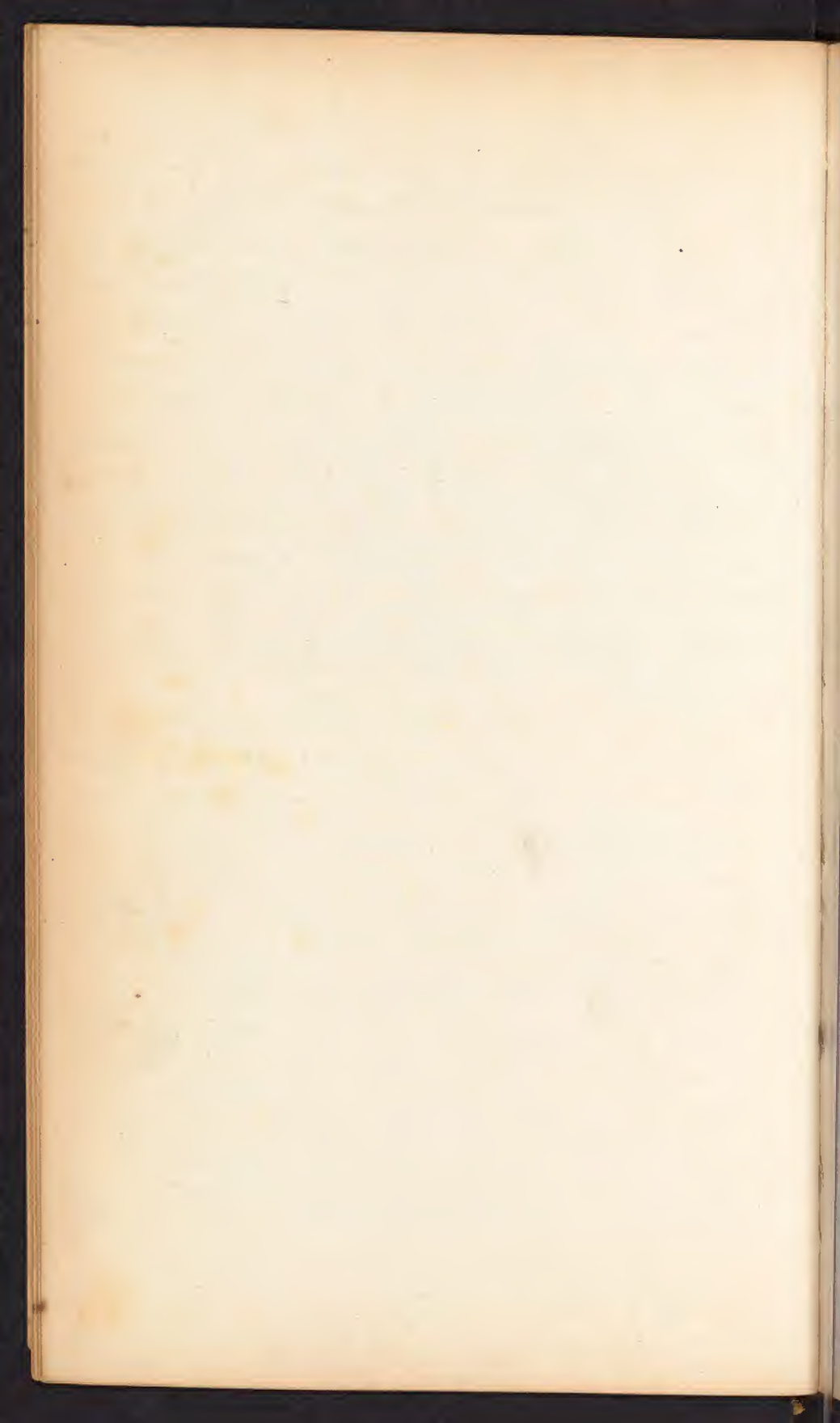


Lymph. cells degenerate & become honey cells  
Also into fat cells. Corpuscular lymph  
degenerates into fat cell Envelope of which the  
nuclei are fat. Another Calcareous cells,  
Also into Pigmental cells. One cell













IV. Hardening. Owing to deposition of plasma  
as in Schiroma. V Softening, as in chronic inflam-  
of brain, in the heart. VI. Atrophy generally the  
result of Metastasis, As in Mumps, The swelling  
leaving parotid gland and being transferred  
to Testicles, Here the indication is to bring the  
disease back to original seat, and if we can't  
accomplish this we must fear very much the  
beginning of Atrophy. Have it also in brain in  
bone Kidney lump. VII. Hypertrophy Sometimes  
occur in most vital organs, no one can  
tell the result here. VIII. Chemodis. Excessive  
deposit of blood in a tissue. Making thicker  
rupturing vessels, presenting to eye a hard  
shining and lamelated appearance. It  
always destroy the part if Surgeons don't  
use most active Antiphlogistic Means

is produced by death by impairing vitality of part.



## IV. HARDENING.

*Definition.*

*Causes.*—Besides inflammation, it may result from natural causes, or it may be produced by simple congestion; undue accumulation in the cavities of organs; hypertrophy; loss of the fluids of an organ; interstitial deposits, and the presence of unorganized masses, as *tubercles*, &c.

*Manner in which inflammation produces hardening.* *Effusion of Plasma*

*Tissues liable.*

*Effect on organs.*

*Treatment.*

V. SOFTENING, OR RAMOLLISSEMENT. *Pulverulent**Definition.*

*Causes.*—Usually from inflammation. May result from defective nutrition; disease of arteries; want of proper food; altered qualities of the blood, &c.; the solvent qualities of the gastric juice.

*Tissues liable to it.* *Mucous membranes, chorio-cyph*

*Effects on organs.*

*Treatment.*

## VI. ATROPHY.

*Definition.* *Wasting*

*Causes.*—Besides inflammation, it may result from a law of nature, as in the *wasting of the thymus gland*; an arrest of the nutritive process before birth; from a state of inaction; loss of nervous power; pressure; diseases of various kinds.

*Division.*—Partial and general.

*Effect on bulk of organs.*—May exist without any positive loss of size, as in eccentric atrophy of the heart, &c.

*Effect on function of organs.*

*Tissues most liable to be attacked.*

*Treatment.*

## VII. HYPERTROPHY.

*Definition.*

*Causes.*—More active nutrition in a part, dependent often on inflammation; but also the result of other causes—as exercise; vicarious function; excessive or unusual exertion in the involuntary muscles. It may also be congenital. Certain climates and trades also predispose to its occurrence. Castration and excision of the ovaries will cause hypertrophy.

*Division.*—Partial or general.

*Effect on bulk of organs.*—May exist without positive enlargement. Cite examples of this.

*Effect on function of organs.*

*Tissues most liable.*

*Treatment.*

## VIII. CHEMOSIS.

*Definition.*

*Causes.*—Acute inflammation.

*Symptoms.*

*Tissues most liable.*

*Prognosis.*

*Treatment.*

Hectic fever has cold hot sweating  
stage—usually, afternoon & Evening  
nervous paroxysmal moderate

## IX. SUPPURATION.

- Definition.** *Stage of suppuration or suppuration.*  
**Causes.**—Invariably the result of inflammation. This is doubted by some, but without foundation. The inflammation must not run too high, for here, as in the secretions, there is a "secreting or rather suppurating point," above or below which pus will not be formed.
- Situations in which it is formed.**—1. Upon exposed inflamed surfaces, as the skin, mucous membrane, &c.  
2. Upon unexposed surfaces, as serous membranes, cellular membrane, &c; here called "purulent effusion."  
3. On granulations.  
4. In a sac, to which we apply the term *abscess*.  
5. It may be diffused through the whole substance of an organ.
- Time required for its occurrence.**—Varies from thirty-five minutes up to several hours, or weeks. *In pyæmia pus is formed in the blood.*
- Symptoms.**—1. Local. 2. Constitutional. *In pyæmia pus is formed in the blood.*
- Theories relative to the formation of pus.**—Numerous. Those of Hippocrates and Galen, Boerhaave, Hoffman, Stuart, Hunter, Simpson, Morgan, Gendrin, Carswell, Gulliver, Donné, Andral, and Gerber, explained.
- Usual change in tissue before pus is formed.**—Puogenic membrane of Hunter. New gland of Simpson; not always present; usually exists in abscess.
- Pus.**—Two kinds; healthy or laudable, and unhealthy.
1. **Physical properties of healthy pus.**—Colour, smell, consistence, taste, specific gravity.
- Microscopic examination of.**—Two parts, solid and fluid. Solid composed of pus globules, and pus molecules. Difference between these and globules of blood.
- Chemical analysis of.**
- Tendency to putrefaction.**
2. **Several kinds of unhealthy pus.**—(1.) Ichorous pus. (2.) Sanious pus. (3.) Creamy pus. (4.) Curdy pus. (5.) Slimy pus. (6.) Serous pus. (7.) Sordes. (8.) Malignant pus. (9.) Contagious pus.
- Character of pus modified by cause and surfaces secreting it.**
- Action of pus on the surface secreting it.**
- Diagnosis.**—May be confounded with mucus. The various tests examined. Also with tuberculous matter.
- Prognosis.**—Depends on extent and location of deposite, &c.
- Treatment.**—General principles laid down. Modified by circumstances.
1. Local remedies. 2. Constitutional.

## ABSCESS.

- Definition.**—A collection of pus in an accidental or preternatural cavity. When pus is collected in a natural cavity, it is called an "effusion."
- Causes.**—Always the result of inflammation; theory of Dehaen no longer maintained.
- Classification.**—1. Old arrangement into "acute or hot," and "cold or chronic," no longer retained by most authorities.  
2. Abscess of debility, or asthenic abscess.  
3. Purulent deposit, or abscess by congestion.  
4. Metastatic abscess.



Suppuration. Necessarily the result of Inflammation but there is a secreting point above which or below we have different products. Situations in which it is formed. 4. In sac making abscess. this sac being formed by the plasma, this sac being the pyogenic membrane of Hunter the new gland of Simpson 5. May be diffused through whole substance of part then making sinuses. d. From 35. to several times or weeks. In highly organized tissue and high grade of inflammation will form in 35 min. Though we rarely have it formed so speedily. <sup>fe.</sup> 1. an acute throbbing pain swelling often redness the patient alone par. effusion of plasma this is destroyed and we have pus. 2. When suppuration is about to commence we have the pain lessened the tenderness gone pulse becomes fluttering. Skin most <sup>soft of heat alone</sup> no thirst and above one <sup>fever, prostr.</sup> <sup>rigor and chill or rigors</sup> <sup>or fear of pyaemia</sup> <sup>fever, prostr.</sup> falling symptom a Rigor. <sup>fe.</sup> of Hippocretes. That pus is an alter condition of blood not so Microscope show an essential difference between the pus and blood globule one is flat & disc one simple and other compound. Hoffman considered it a softening of fat. others that it was chyle. Microscope will confound all. Pus is a fluid serum containing dead exudation corpuscles making the pus globule and containing also the pus molecule and epithelium scales which molecules are not many but the nucleus of the exudation corpuscles.



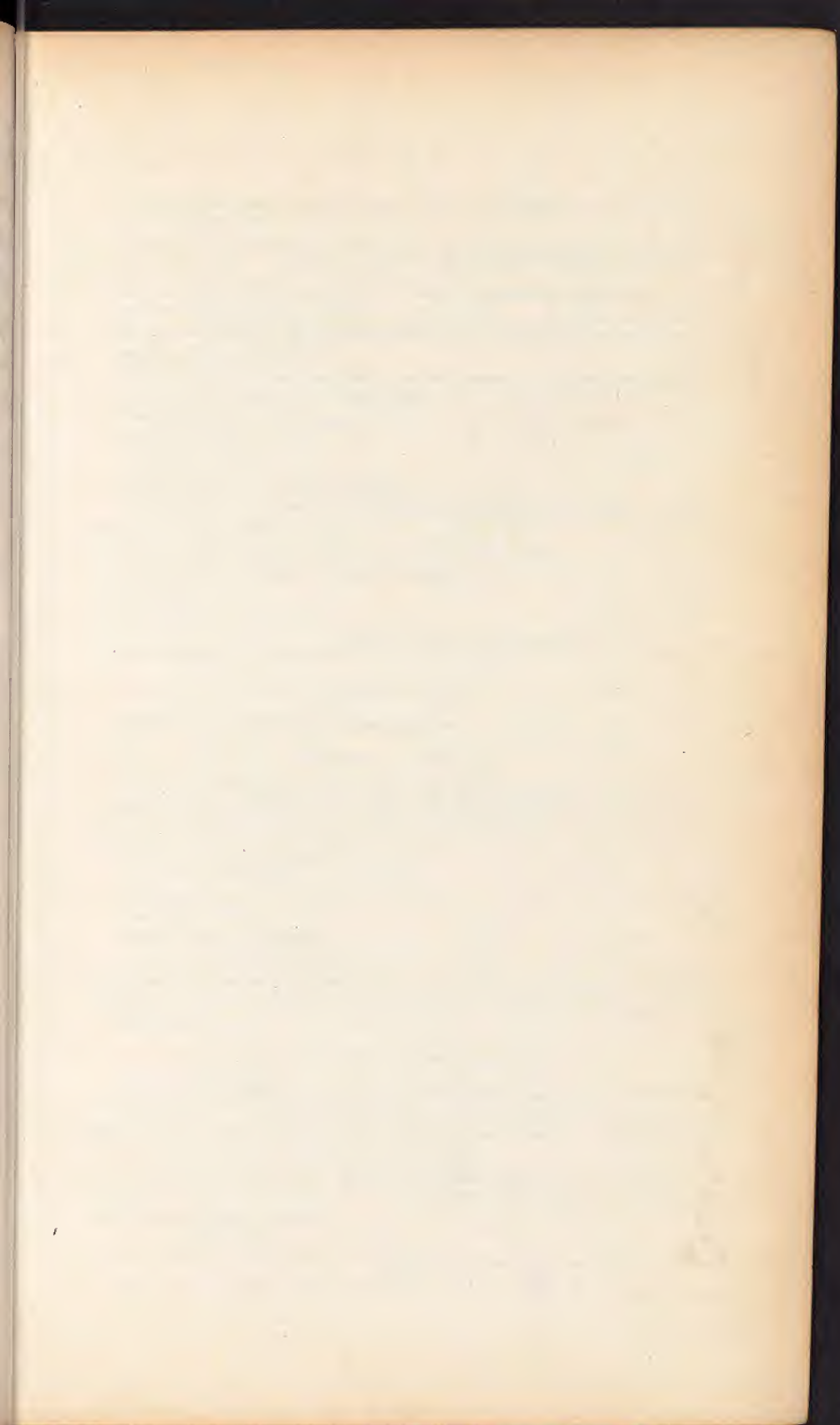
1  
1. Pus is fluid of peculiar Musky taste, creamy  
if no smell if healthy rather tenacious and  
sinks in water. Healthy pus is not irritating  
unhealthy is. 2. Scrofulous pus globules very  
heavy, and will remain at bottom of vessel. 3.  
A greenish pus very thick showing inf of higher  
grade. 4. Slimy pus. Indicating high inflammation  
pus of Dysentery. 5. Sordes a bluish pus showing  
Necrotification of cellular tissue. 6. Red thick  
pus is only simple healthy pus mixed with  
blood. 7. Serous pus Called Ichor is thin and  
acid producing much irritation when  
comes in contact with healthy tissue being  
an altered condition of serum of blood. 8. Pus  
not only indicates the kind of the kind of inflam-  
but also the tissue attacked, for instance if we find  
much phosphate of lime it will show at once the  
disease of bone when from a mucous membrane  
then indicate it is an unusual amount of  
epithelium & cells. 9. But one positive test the  
Microscope. Will depend on location and  
extent. If we have an acute inflam on an  
internal surface the prog is unfavorable  
if chronic the deposits being slower we will  
have time to use our remedies. It will be  
more favorable. Also Modified by extent of inflam.  
If we have very unfav. Treatment. 1<sup>st</sup> Before  
Suppuration has taken place we use most active  
Antiplogistics to procure resolution but if we find  
suppuration will go on we change  
Antiplogistics

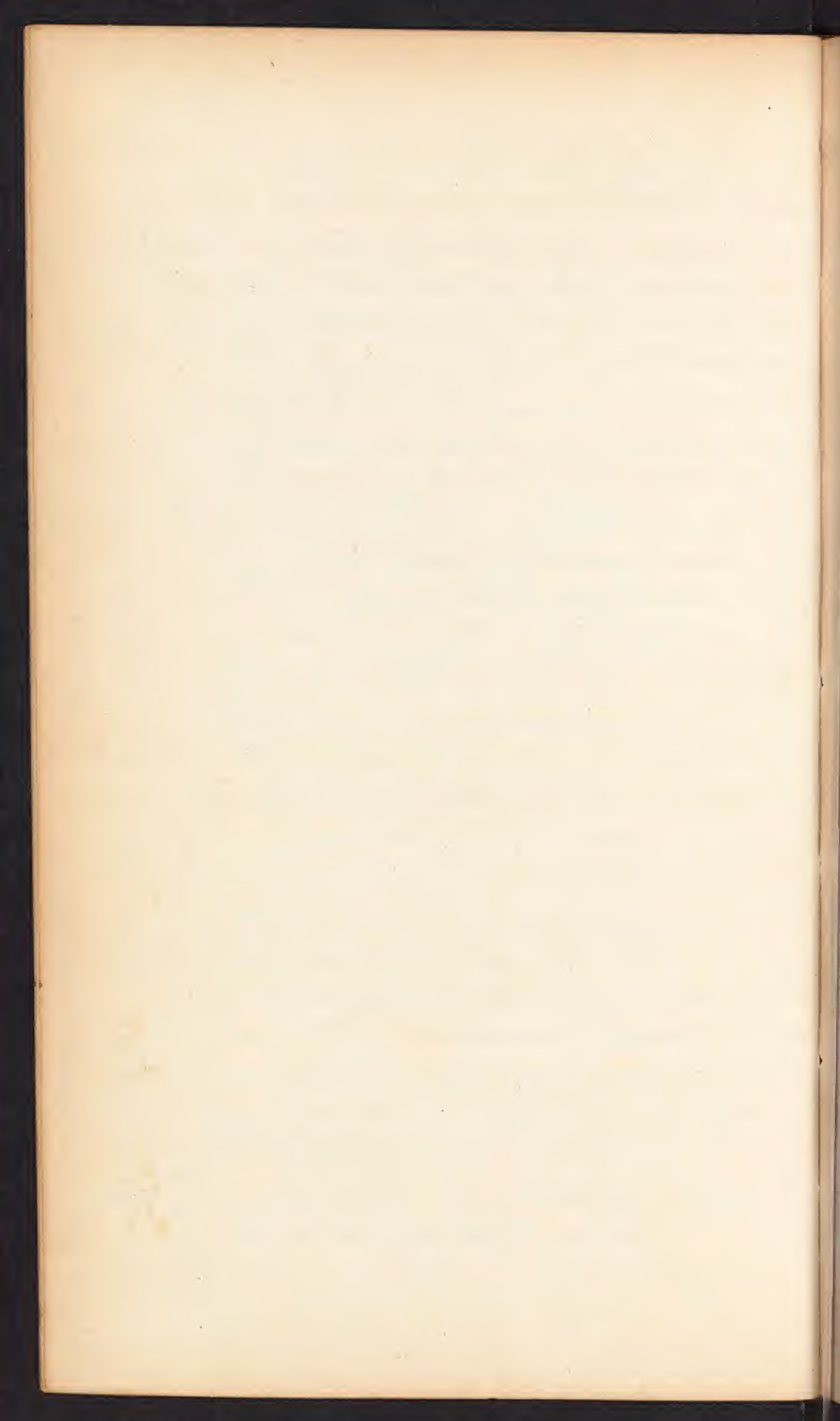
nutrient food supply and are known  
formulations good diet give daily & opian  
to support constitution and to relieve  
pains and drawing blood & to aspirate  
if not drained must endeavor to procure  
absorption if not of generally puncture  
the abscess.

3 modern theories of formation  
1. Fibrin & serum formations  
developed out of fibrin 2. Fibrin comp  
of serum & plasma 3. Fibrin is  
B. adopted by best pathologists Serum & fibrin  
are exudations cells formed with maturity  
C. exudate membrane formed of mixed lymph  
the fibrin becomes <sup>or dense prothrombin</sup> & the liquid the surface  
forms per. in all spherical consisting of floating  
membrane nuclei oil globules & molecules.



*[The text on this page is extremely faint and illegible, appearing to be a handwritten letter or document.]*







Some writers make a much greater variety, based upon *cause, tissue, or organ involved*, &c.

*Changes which take place in the tissues from the period of inflammation to that of suppuration.*

*Changes that take place after this.*—Divided by some into three stages: 1st, deposit of pus in the cells of the part; 2d, maturity, or the collection of this fluid into one cavity; 3d, resolution, either by absorption of the pus, or its evacuation by an operation.

*Structure of an abscess.*—Depends on its character. The purogenic membrane is usually, though not always, present.

*Uses or functions of the cysts.*

*Mode of growth.*

*Direction of growth.*

*Progress of growth.*—Slow or rapid.

*Termination.*—In resolution, ulceration, granulation and adhesion; or it may become encysted.

*Effects of air when admitted into the cavity of an abscess.*

*Symptoms.*—1. Local. 2. Constitutional.

*Diagnosis.*

*Prognosis.*

*Effect on the constitution produced by suppression of the secretion.*

*Treatment.*—1. Local remedies. 2. Constitutional.

#### ASTHENIC ABSCESS.

Peculiarities of this form of abscess explained.

#### PURULENT DEPOSITE, ETC.

*Definition.*—An abscess which differs from the ordinary forms in the circumstance of its pus not being originally formed in the parts in which it is found. It is hence sometimes called *symptomatic abscess*. Cite examples. Why called abscess by congestion?

*Parts most liable to this form of abscess.*

*Pathology.*

*Character of the pus.*

*Diagnosis.*—Often obscure.

*Prognosis.*—Usually unfavourable.

*Treatment.*—Depends somewhat on circumstances. Governed by general principles. To illustrate more clearly the proper treatment speak of that form called *Psoas abscess*.

#### METASTATIC ABSCESS.

*Definition.*—An abscess that suddenly forms without any previous indication of inflammatory action, and in parts distant from the point in which suppuration has originally existed. Hence it was supposed by some that the pus actually changed its location, or that *metastasis* took place.

*Location.*—Usually in the viscera. Sometimes they are met with in the cellular tissue, muscles, joints, &c. They generally select the largest viscera and those most highly organized.

*Number.*—Varies from one to several.

*Exciting causes.*—Wounds, great surgical operations, injuries of the head, trivial wounds of veins in bad constitutions, delivery.

*Proximate cause.*—A number of theories on this point; supposed by some to be tubercles previously existing in the organs attacked, and softened by the general irritation of the system; by others, direct absorption of pus by the veins or lymphatics, is considered the true cause; others again refer it to *sympathy*; but the doctrine now generally received, is that which considers the true cause to reside in *inflammation of the venous capillary vessels or larger veins.*

*Condition of the organ in which or around which the abscess forms.*

*Symptoms.*—1. Constitutional. 2. Local. Both modified by the location of the abscess.

*Diagnosis.*—Obscure.

*Prognosis.*—Generally unfavourable.

*Treatment.*—1. General remedies. 2. Local remedies. Both modified by circumstances.

#### FISTULA, OR SINUS.

*Definition.* *Sinuous ulcer*

*Causes.* *It comes like mucous surface. I will not touch*

*Symptoms.* *effusion of plasma*

*Pathology.*

*Diagnosis.*

*Prognosis.* *See sulphur & copper as injections if recent*

*Treatment.* *more for slowly if seton. Laying open & dressing ulcer with stimulant*

#### HECTIC FEVER.

*Definition.*

*Causes*—1. Constitutional. 2. Local.

*Symptoms.*—May be divided into three groups: 1. Slight febrile action, with exacerbations in the evening. 2. The febrile action is continued. 3. Prostration indicated by perspiration, diarrhoea, marasmus, &c.

*Diagnosis.*

*Prognosis.*

*Treatment.*

#### X. ULCERATION.

*Definition.*—Differently defined by different authors. I adopt that of Phillips: "Ulceration is that product of inflammation in which there is a loss of some part of the body, which from some peculiarity, local or general of the constitution, manifests no tendency to heal, so long as that particular condition exists."

*Distinction between wounds and ulcers.*

*Predisposing or exciting causes of ulceration.*—1. Constitutional. 2. Local.

*Proximate cause.*—Difference of opinion among authors. Hunter's doctrine of "Ulcerative absorption" explained. Difference between it and "progressive absorption."

*Liability of tissues to ulceration.*—The most highly organized, are most frequently attacked. Some tissues are exempt.

*Natural tendency of ulceration.*—When left to itself it generally extends. Sometimes it heals spontaneously.

*Effects of ulceration upon the part attacked, or upon the constitution.*

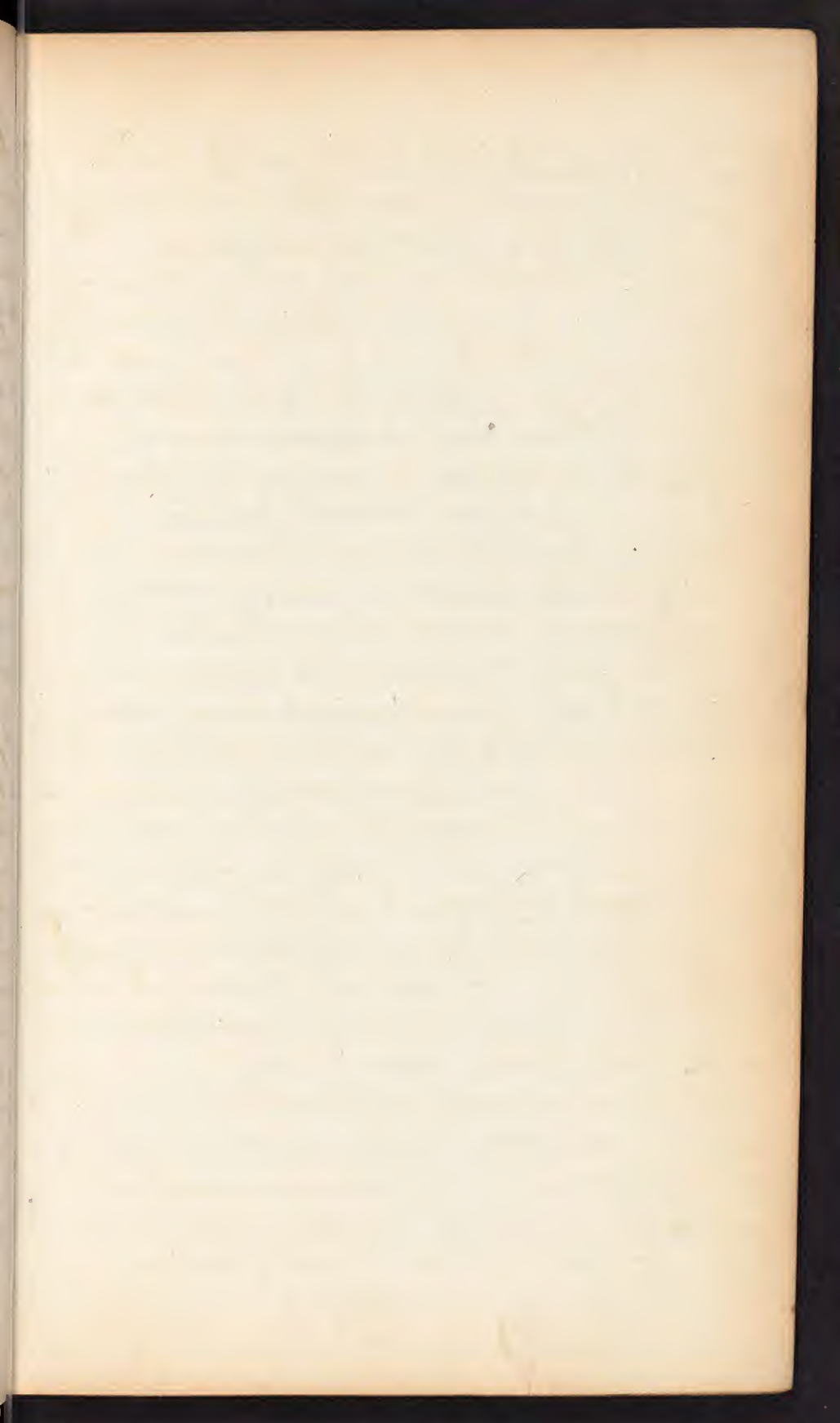
*Tissue forming the surface of an ulcer.*—Called a *granulating surface.*

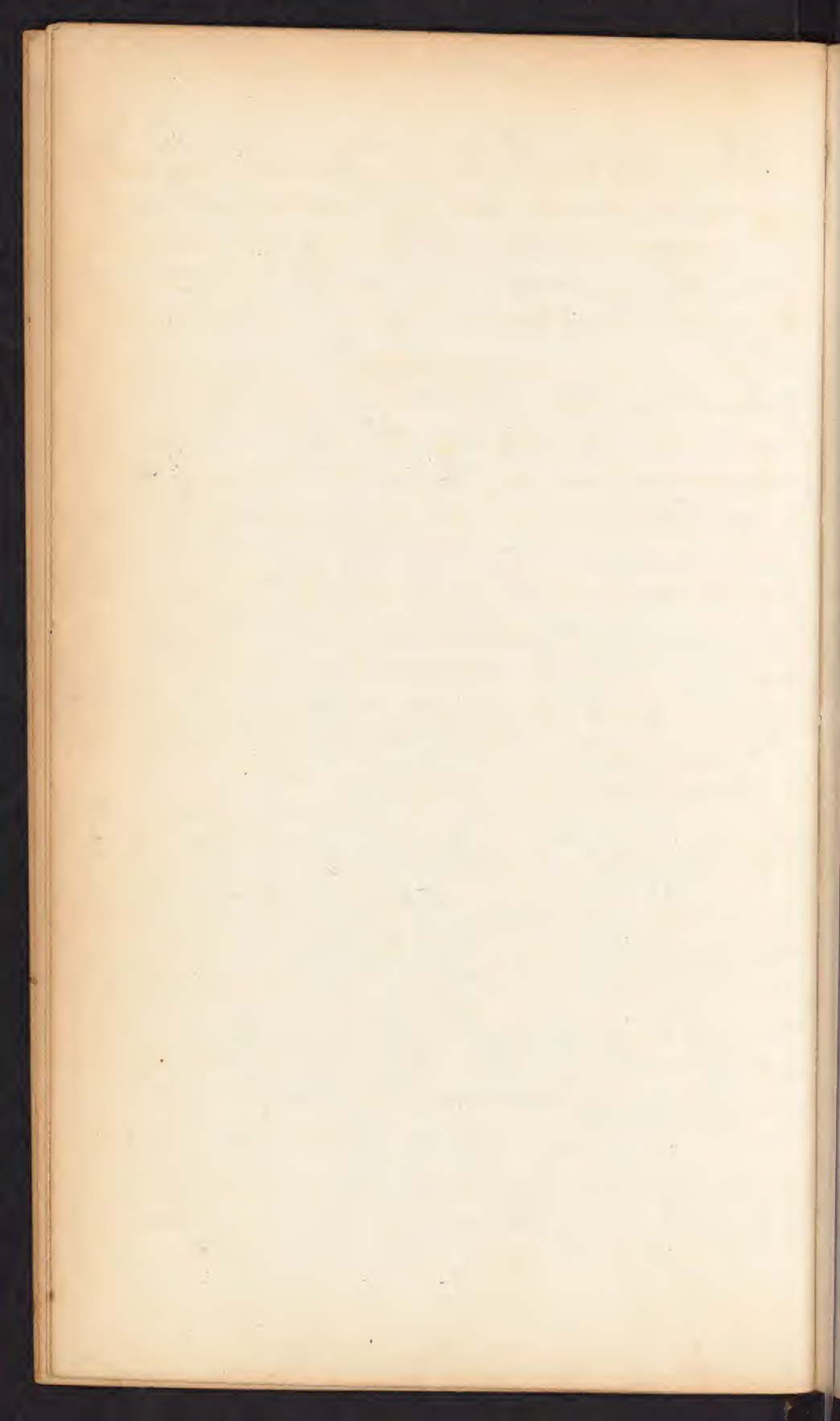


Ulceration. A good definition but one exception  
will apply in malignant diseases since nature  
here deposits granulations to counteract the  
destructive action of the disease. B. A wound is  
but a solution of continuity from external violence  
which may under certain circumstances give rise  
to an ulcer. Whilst on other hand an ulcer is  
solution of continuity produced by some internal  
constitutional cause. C. As Syphilis - gout Rheum  
Scorbutus. Local violence persons &c. D. Hunter  
regards all phenomena of ulceration to absorbents of the  
part which stimulate its own absorbents to take it up  
The argument will prove its fallacy. Would not poisons be  
absorbed if applied to surface of an ulcer? They would  
but this is not the case and Hunter's theory is untrue.  
1<sup>st</sup> process of ulceration, is softening of tissues 2<sup>nd</sup>  
is Molecular disintegration. Sometimes can be seen  
with naked eye and always with microscope. 3.  
part of the tissues may be absorbed but the main  
part is carried away in the pus. The proximate  
cause of ulceration then is the loss of that plastic  
power that must exist that tissues may retain  
their vital orders. E. Whether have healthy or  
unhealthy always same depends 1<sup>st</sup> On  
Amount of inflammation, 2. On tissue Attacked.  
3. On Cause whether Constitutional or local  
The surface of healthy healing ulcer is called  
a granulating surface













the ulcer of the 90° at least will not heal  
always test an ulcer

**Granulation** Surfaces heal by the effusion of plasma, and its organization. If we examine the granulating surface of an ulcer the piercing granules and connecting these granulating points, little mucus exudes which contract and draw these points together. An Ulcer Cylindrical Heals these granules differ in shape and color. If they have a pyramidal shape they are fungous and won't heal. B. The two though generally combined may exist separately. **Bicatrization**

A. The tissue uniting wound or ulcer **Modular tissue**

C. Essentially difference in nearly all cases

there is no fibre in modular tissue it is homogeneous

Muscle never unites by muscle - In all tissues when

plasma is thrown out for purposes of repairation

it is the same fluid - In some however we have it

forming original and in others modular tissue.

In cicatrizing the cuticle is always more delicate than in

ordinary skin, under the cuticle there is not like

mucosum. The cellular tissue is not like usual

cellular tissue but presents different appearance

No hair follicle under this cellular tissue no

sebaceous follicle. The modular tissue therefore

is below par, less vital power in consequence of

its deficient organization and will break sooner

than any other tissue it is the weakest part of

the body. It is thus a peculiar tissue and will

behave peculiarly in its life. It has a cancer

but its behavior is not like ordinary skin.

Notice the importance of healing if possible by 1st

intention of Hunter Solutions continuity.



When plasma throws out 2 changes - one converted  
weak corpuscles into pus - other plasma cells  
into organized nucleus - aggregate of granules  
together (13)

#### GRANULATION.

**Nature of granulations.**—1, basis or element of which they are formed; 2, size; 3, colour; 4, shape; 5, temperature; 6, organization. Guterboch's statement as to what enters into the composition of a granulating surface.

**Dependence of granulation upon suppuration.**—Pus is supposed by some to be essential to the formation of granulations; by others this is doubted. It is not found, for example, in ulcers of the *cornea* or *cartilage*.

#### CICATRIZATION.

**Cicatrization, or the healing of granulating surfaces.**

**Definition of a cicatrix**—Tissue by which a wound or ulcer is united. By Delpech it is called the "*inodular tissue*."

**Difference between cicatrix and the tissue it unites.**

**Modification.**—This process is modified by a variety of circumstances; for example—

1. When it occurs under a scab or crust of blood, the cicatrix forms over the whole surface, and is smooth and pliant.

2. When it takes place on a smooth, moist surface, as when a wound heals by the "modelling process of M<sup>r</sup> Cartney," the surface is smooth, and the cicatrix a mere line.

3. When it forms on granulations, the process usually commences at the edges of the ulcer, and the surface is often irregular and prominent.

4. It is also much modified by the *cause* of ulceration. Those, for example, produced by burns or scalds, are more irregular, have more extensive adhesions, and cause more serious deformity, than when they result from any other cause.

**Specific ulcers** usually produce a characteristic cicatrix.

5. The character of a cicatrix is also modified by the *tissue* in which it occurs.

**Structure of cicatrix.** *Spots & granules, fine vessels & layers of membrane*

**Profundity or depth.**

**Force with which it contracts during the process of formation.**

**Circumstances which prevent or retard cicatrization.**

**Nature of the tissue of a cicatrix.**

**Power of resisting disease, and diseases peculiar to the cicatrix.**—Refer to Mr. C. Hawkins for an excellent paper on *Cancer of Cicatrices*.

**Form of cicatrix.** Dupuytren's classification. *pg 17*

**Prognosis as to the result of operations.**—Depends on a variety of circumstances. We must take into consideration—1st, the depth of the cicatrix; 2d, its age; 3d, its location; 4th, its extent; 5th, its peculiar character; 6th, its vascularity; 7th, the condition of the parts in its vicinity; 8th, the health of the patient.

**Treatment of cicatrices.**—May be divided into—1. That proper during the formation of the cicatrix. 2d. That required after its complete formation.

**Indications under first head.**—1. Remove all agents calculated to prevent cicatrization.

2. Endeavour, as a general rule, to make the cicatrix as small as possible, unless by so doing we interfere with some function.

3. Prevent the cicatrix being too small or too short, as in wounds about the fingers, face, &c.

4. By caustics or the knife prevent fungous granulations.



*Indications under the second head.*—1. Endeavour to relax the cicatrix by frictions, baths, extension, &c.

2. When these means fail, perform an operation. The character of the operation is modified by circumstances. To render this part of the subject more simple, the operation required in each form of cicatrix may be briefly referred to.

(1.) In the *narrow cicatrix* without extensive adhesions, divide the cicatrix, extend it, and maintain it extended for some time.

(2.) In the *prominent cicatrix*, slice it off, or keep it down with *caustics*, or slough it out.

(3.) In the cicatrix with *extensive adhesions*, cut out the cicatrix and fill up the space with sound skin. The practice of Hildanus, Earle, &c., in these cases explained.

(4.) In contraction of *natural openings*. The operation of Dieffenbach, &c., explained.

(5.) When an organ is *entirely destroyed*, the *cicatrix* must be removed, and a plastic operation performed.

#### ULCERS.

*Definition.*—Solution of continuity, accompanied by the secretion of pus or other fluid—(Liston and S. Cooper.) A granulating surface secreting pus—(A. Cooper.) This definition is objectionable, inasmuch as we may have secretion of pus *without granulations*. The definition of Liston and S. Cooper is better.

*Difference between ulceration and an ulcer.*

*Classification.*—Difficult. The causes, the symptoms, and the parts attacked, have each been taken as the basis of a classification. That of Liston I prefer, as being most simple. He makes six varieties of ulcer, and in this agrees with Sir E. Home. Their classifications are almost identical.

1. The simple, healthy, or healing ulcer.
2. The weak or sluggish ulcer.
3. The indolent ulcer.
4. The irritable ulcer.
5. The specific ulcer.
6. The varicose.

#### SIMPLE ULCER.

*Characteristics.*

*Causes.*

*Class of persons usually affected.*

*Parts of the body attacked.*

*Prognosis.*

*Treatment.*

#### WEAK ULCER.

*Characteristics.*

*Causes.*

*Class of persons usually affected.*

*Parts of the body usually attacked.*

*Prognosis.*

*Treatment.*

D. 1. Here we find the cicatrix to be more  
highly organized and to approach much  
more closely than it would otherwise the  
original tissue we should bear this in mind in  
wounds of face, often imitate a scar by use of  
collodium or piece of lint dipped in blood.  
2. If allowed to heal by ordinary process there will  
be a lump. To avoid this Mr. Cartney introduced  
what he calls the modeling process, done by  
keeping part at certain temperature and moist  
and we have a deposit layer after layer until the  
the part heals. 3. 1<sup>st</sup> Indication of healing is shown  
by edges having on them a whitish deposit, but  
we have always a rough and prominent scar  
or cicatrix. 4. By Cause as from scalded burn  
owing to the condition of surrounding tissues  
being altered, and the contraction will in these  
cases be very great. 5. As in a mucous  
tissue we nearly always find the scar  
to be depressed not prominent, and angular  
tissues not to be care in giving medicines  
to those who have suffered injuries of  
mucous membrane. Cicatrices are often  
so much contracted as to destroy entirely  
the use of part. Prognosis will depend  
on structure. On depth, here unfavorable  
as the tissues beneath are involved. Age of  
ect. The older the more favorable. 3. Location  
4. More extensive the more unfavor. the prognosis  
5. its character. 6. Where it is very red and there  
much hemorrhage to be expected the more  
unfavorable

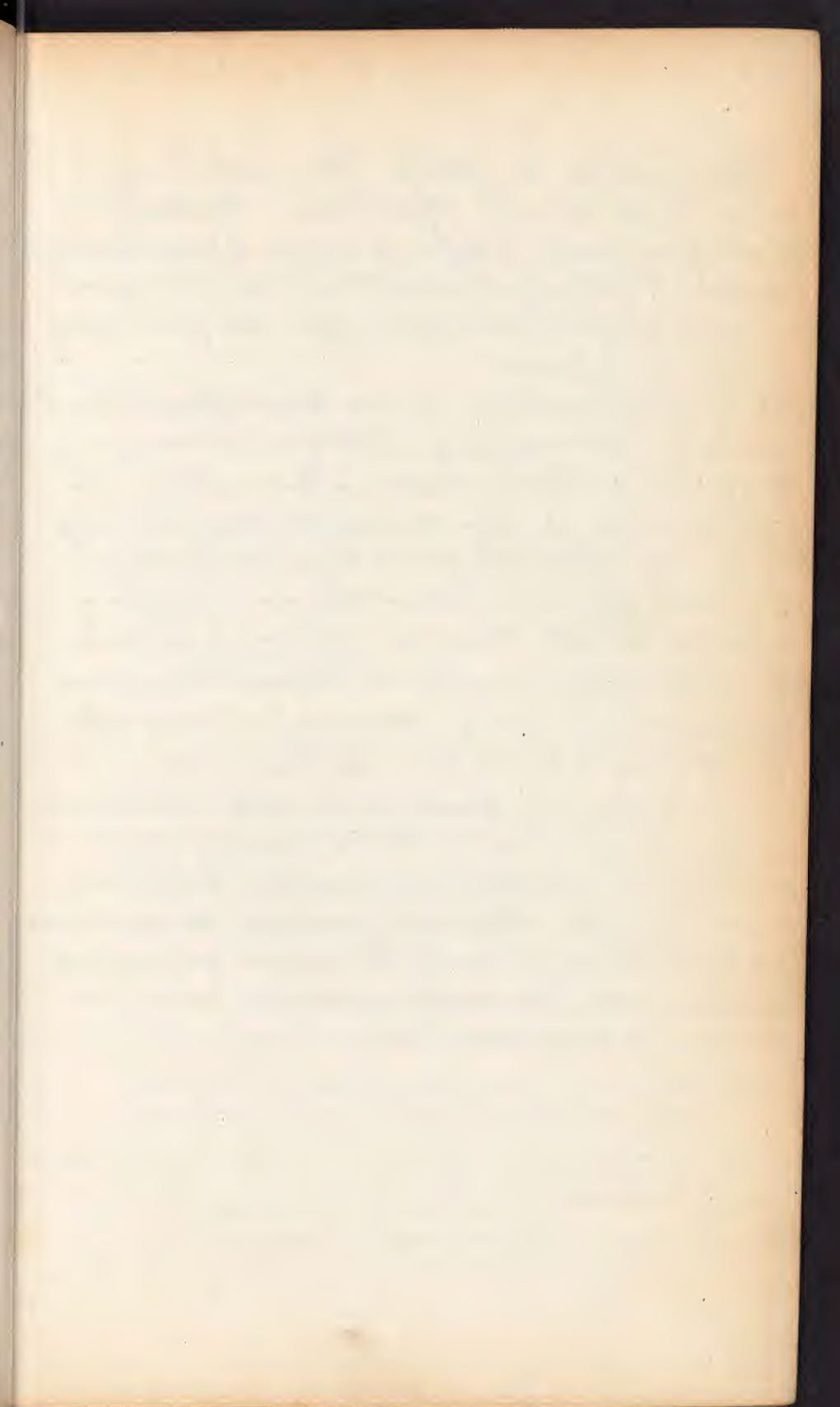


Certain and in each particular form of  
the cicatrix for instance in linear cicat. as  
in contraction of finger, cut it across between  
places to straighten and keep it inside the  
splint until 5 or 6 months have elapsed. and  
if prominent cut it off for out and bring  
the sound parts together. 3. In cicat. with  
extensive adhesions cut it out entirely and  
cover the space with sound skin by  
plastic operation. 4. cicat. - rule  
shave off and heal in de  
water. if can remove it entirely  
and bring parts of sound  
skin 3. If to dissect out  
ind tissue cut out and draw  
muscle which are contract  
and out stretch org skin











Mortification, a generic term including under it two stages - Gangrene the state in which a part is before it dies - Spikes cells complete - Death when gangrene deep is most extent and under favorable circumstances the part may be restored to health.

Classification. 1. Stochastic, i.e. derived through heat and cold. 2. Idiopathic, i.e. inflammation of the part being cold and bloody. 3. Traumatic where there is perforation from the vessels of the part. Swelling & redness of the vessel the blood seems to be absorbed. 4. Chronic - Chronic venous disease attacking in perfect health taking a long time for its full development. Only symptom is a long continued, constant burning pain in leg toe, occurs from old habits of bad habit of body like liver disease, but usually after some constitutional disorder sometimes however brought about by local causes. 5. At certain periods almost coagulation of the blood is necessary under the most favorable circumstances to produce it. 6. Phagedenic as in Syphilis. 7. Neuralgia & neuralgia this is treating the case plan inflammation. Surgical operation which this is removing cause.

## INDOLENT ULCER.

*Characteristics.**Causes.**Class of persons usually affected.**Parts of the body usually attacked.**Prognosis.**Treatment.*

## IRRITABLE ULCER.

*Characteristics.**Causes.**Class of persons usually affected.**Parts of the body usually attacked.**Prognosis.**Treatment.*

## SPECIFIC ULCER.

*Characteristics.*—Depend on cause.*Causes.*—Cancer, scrofula, fungus, scorbutus, syphilis, &c.

The peculiarities of these ulcers will be pointed out under the heads of their respective causes.

## VARICOSE ULCER.

*Characteristics.**Causes.**Class of persons usually affected.**Parts of the body usually attacked.**Prognosis.**Treatment.*

## XI. MORTIFICATION, OR SPHACELUS.

*Definition.**Difference between gangrene and sphacelus.**Classification.*—Several terms are employed to designate the different groups of phenomena which characterize mortification under different circumstances.

We have, for instance—

1. Hot, acute, traumatic, or inflammatory mortification.
2. Cold, or that which takes place without previous inflammation.
3. Humid, or that accompanied by the effusion of fluids.
4. Dry, or that in which little or no secretion or effusion occurs. From the fact of its being chiefly confined to old persons it is often called "Gangrene Senilis."
5. Chronic, or that form described by Pott, as attacking chiefly the extremities.
6. Hospital gangrene.
7. Epidemic gangrene.
8. Specific gangrene—example. Malignant pustule.

*Causes.*—Various. It must be recollected that mortification may result from many causes besides inflammation. Nearly all of these may be ranged under four or five heads.

1. It may be occasioned by any cause capable of producing a cessation, or partial cessation, or even a feebleness of the circulation in a part—as inflammation, mechanical obstacles, debility, ossification of arteries, &c.

2. By any cause which occasions violent mechanical or chemical changes in the part, as contusions, lacerations, heat, cold, mineral acids, and caustic alkalies.



3. By any which, in consequence of their poisonous properties, will produce a deleterious influence upon the system at large, as the virus of rabid animals, and poisonous reptiles, and animal fluids the result of decomposition.

4. By any that will impair the powers of nutrition, or furnish bad chyle. High living, or bad food, certain articles of food, (as ergot,) bad air, bad lodging, and certain trades by obliging individuals to deny themselves proper food, air, and exercise, will all predispose to mortification, and may produce it without local injury.

5. By any that will cause intense passions or emotions of the mind. (See Langenbeck.)

*Manner in which these various causes operate upon the parts attacked.*—

*Liability of tissues to mortification*—some more liable than others.

*Time required for the process of mortification to be completed.*—Depends on circumstances.

1. It may take place very slowly.

2. It may occur very rapidly.

3. It may be instantaneous.

*Symptoms.*—1. Constitutional. 2. Local.

*Process of sloughing.*—When in consequence of our remedies or the vix medicatrix naturæ, the progress of mortification is checked, a *distinct boundary line* is formed between the *living* and the *dead* tissue, and nature proceeds to *amputate*, as it were, the portion which has lost its vitality, by a process termed "*sloughing*," and where the bones are concerned by "*exfoliation*," the chief agent in the accomplishment of which was called by Hunter "*disjunctive absorption*."

The different changes which take place in this process described.

The period at which it occurs after mortification is completed depends on circumstances. State what these are. Condition of parts after the separation of the slough, and their manner of healing.

*Prognosis.*—The effect produced upon the system by the occurrence of mortification depends on the part involved. If the organ destroyed is one of importance, or vital, the death of the animal is either instantaneous or speedy. If, on the other hand, the part affected is not essential to life, sloughing takes place and the individual recovers. Sometimes; however, this process is so tedious, and the parts destroyed so extensive, that death ensues in consequence of debility and hectic fever. It is also modified by the kind of mortification present.

*Diagnosis.*—May be confounded with other discolorations of the skin. Positive signs of mortification must always be present before we pronounce upon the nature of the case. We must always be careful to ascertain the *depth* of the slough; for the skin alone may be affected, when there is every appearance of the whole limb being involved.

*Treatment.*—To prove of any advantage, so far as the affected part is concerned, our remedies must be applied in the stage of *gangrene*. They are also modified by the varieties of *gangrene*, the general condition of the patient, the character of the cause, &c. We may, however, lay down certain general indications to be observed in the management of all cases.

1. We must endeavour to apply such remedies as shall put a stop to the disease in the stage of *gangrene*.

2. We must endeavor to arrest the progress of *mortification* when once formed, and at the same time lessen the violence of the local and general symptoms.



A degree of organization is manifested by the latently present  
gangrene the appearance the higher being most generally  
affected is gangrenous but in some cases. In some  
white gangrenous caused by patient sleeping on his  
arm - violent mechanical injury by fracture of leg - fingers  
fingers prominent early - usually shrunken even all over yellow  
before completion. Symptomatic - tubercular abscesses the  
phases become irregular and jerking - feels as if the  
arm was paled with an skin becomes cold and flabby  
fingers coarctated white fur and very tumid and in-  
- creasing the case of stimulation to the thumb is forced closed  
in the palm black color black from stagnation of  
circulation loss of addition of size & period of minutes from  
this change of color shows the destruction of gangrene  
it may however be only in the skin - When sphacelus  
is complete we find no hazard resulting from the  
effusion of plasma stopping up the vessels and  
thus preventing hemorrhage - a red line of  
demarcation showing the extent of the disease  
The treatment is the same as possible. If the  
disease usually from inflammation antiphlogistics general  
and local - If strangulation divide structure or give  
relaxants, by free incisions where there is bonding  
down by fascia's or skin - Local remedies - cold and  
astringent, when warm fomentations poultices, leeches be  
in the early stages of gangrene the latter often  
prove very beneficial



First Const - 1 - where arms were not permitted the wound to heal by immediate amputation was constituted immediately under such but I did not see any or copy

2. i - Sympathetic fever setting in & changing the character of ground swelling  
 d - and - controlled by moist nature in

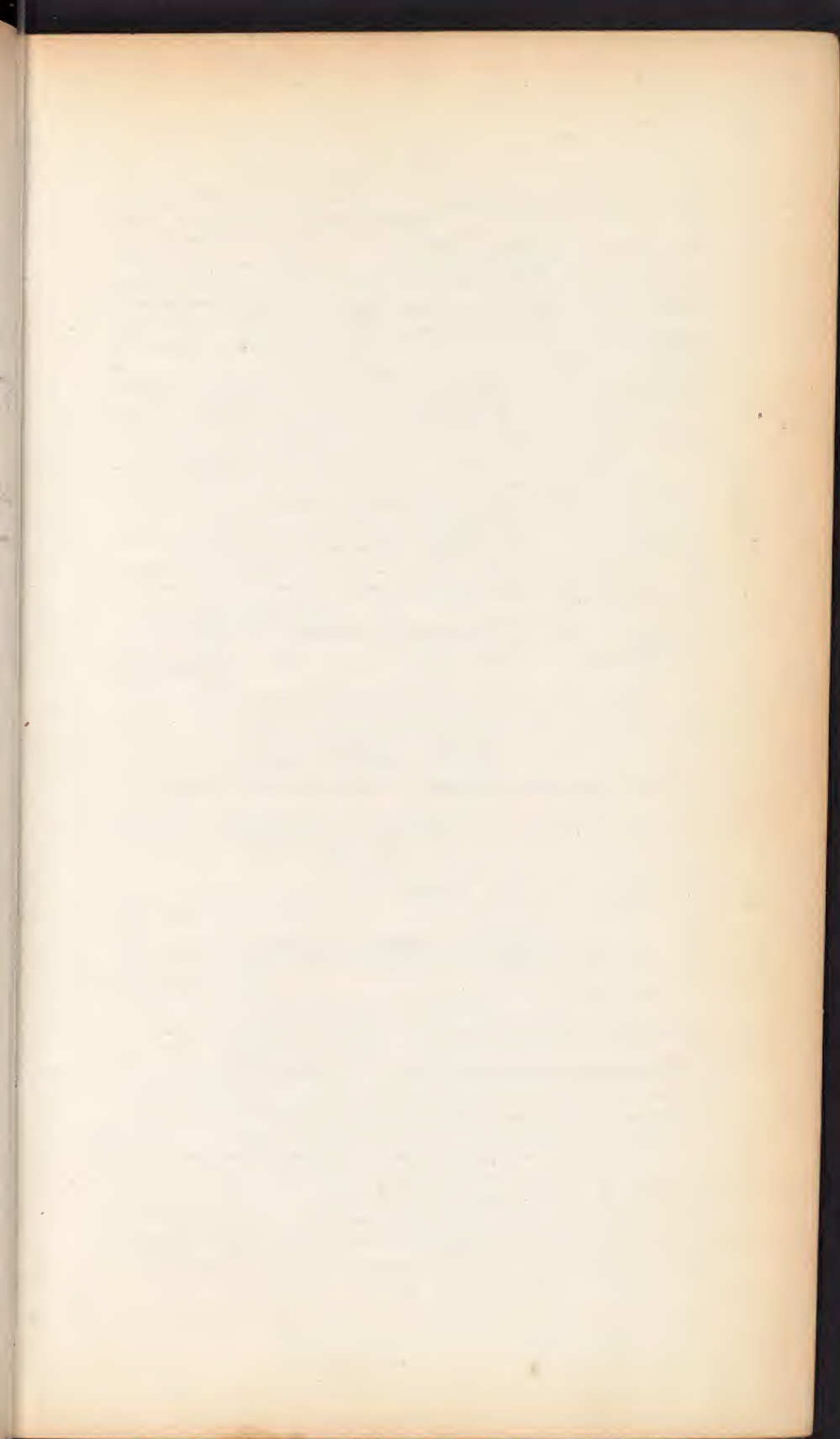
4-5 - 1st - contact by front portion of  
4-5 - Second - 1. with thor. plate, base  
a scab formed the plasma being done  
up again - acting as a support as vibration

Increase of Grounds —



Contract of organic contractility and  
muscular contr. very power -  
Local - Local flexion

Sigatone - action on uterine differs  
from men - only penetrates the men -  
and the Phlebites - scarcely any  
effusion of plasma - never pass  
when the acts the cellular tissue  
gird and internal and middle coat break  
when diseased vessel it will break







3. We must favor the separation of the slough, and when nature is incompetent to the task we must effect it for her.

a. In obeying the first general indication, we must always take into consideration the cause of the attack, and remove it, if possible, at once. If *inflammation* is the cause, *antiphlogistics*, general as well as local, are to be employed. If *strangulation*, or the *arrestation* of the *circulation* be the cause, the stricture must be divided by an operation, or relaxed by nauseants, &c. When produced by the *binding of aponeurosis*, or *skin*, as in *carbuncle*, free incisions are to be made. When *intense cold* is the cause, the temperature of the part must be gradually increased, and the subsequent inflammation treated on general principles, &c. The best *local remedies* as a general rule, in this stage, are *cold and astringent lotions*, or *warm fomentations*, *water dressings*, or *poultices*. *Leeches* may also be occasionally employed.

b. In carrying out the second general indication, we must resort to both constitutional and local means. Tonics, as bark, wine, opium, a good diet, and fresh air, will generally be required. The local remedies are *incisions*, (to be used only when the tissues bind, or fluids are infiltrated to some extent,) *blisters*, *nit. argent.*, *creosote*, *yeast* or *carrot poultices*, *chloride of soda*, *pyroligneous acid*, and *carbonated water*. Charcoal and bark, once so highly esteemed, are not much employed at present.

c. The third general indication is answered by the application of warm dressings and poultices; removing the loose sloughs with the scissors and forceps; and by amputation.

*Period at which amputation should be resorted to*—Depend on cause. In traumatic mortification remove the limb as soon as possible. In all other cases wait until the "*red line of demarcation*" is formed.

*Point at which amputation should be performed.*

In this stage it is usually necessary to support the constitution of the patient.

There are certain kinds of mortification which, from their peculiarities, deserve a separate notice. The first of these is

#### DRY GANGRENE.

*Definition.*

*Synonyms.*—Gangrene senilis—gangrene of the rich.

*Persons most liable.*—The old and dissipated. Men are more frequently attacked than females.

*Causes.*—Divided by Francois into two classes.

1. Those which operate through the medium of the *vascular system*, as inflammation of the vessels, formation of clots in their cavities, obliteration of vessels, ossification of arteries, diseases of the heart, diseases of the blood from bad food, as ergotted grain, &c., and mechanical injuries which obliterate vessels.

2. Those which produce their effect in consequence of either local or general debility of the *nervous system*, as palsy, old age, and the excessive debility of certain diseases, particularly phthisis pulmonalis.

*Symptoms.*—1. Constitutional. 2. Local. When ergot is the cause, the attack may commence with convulsions of the limbs and vertigo, or it may begin with the usual local symptoms of dry gangrene from other causes. The former was called by Linnaeus "*convulsio cerealis*," and by Wepfer, "*convulsio ab ustagine*." The latter, "*necrosis ustilaginea*," by Sauvages.

*Prognosis.*—Usually unfavourable.

*Diagnosis.*—May be imitated by malingers.

*Pathology.*—Still a matter of dispute. Cite the different views of Delpech, Cruveilhier, Dupuytren, Thuillier, Tessier, &c.

*Treatment.*—1. Constitutional. 2. Local.

#### INFANTILE GANGRENE.

*Definition.*

*Persons liable.*

*Parts usually attacked.*

*Causes.*—Question of its contagiousness.

*Symptoms.*

*Prognosis.*

*Diagnosis.*

*Treatment.*

#### CHRONIC MORTIFICATION.

*Definition.*

*Persons most liable.*

*Causes.*

*Symptoms.*

*Prognosis.*

*Diagnosis.*

*Treatment.*

#### HOSPITAL GANGRENE.

*Definition.*

*Synonymes.*—Phagedena gangrenæ; putrid or malignant ulcer; hospital sore; gangrena contagiosa.

*Causes.*

*Symptoms.*

*Prognosis.*

*Diagnosis.*

*Pathology.*

*Treatment.*

#### MALIGNANT PUSTULE OR CHARBON.

*Definition.*

*Causes.*

*Symptoms.*

*Prognosis.*

*Diagnosis.*

*Treatment.*

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### VARIETIES OF INFLAMMATION.

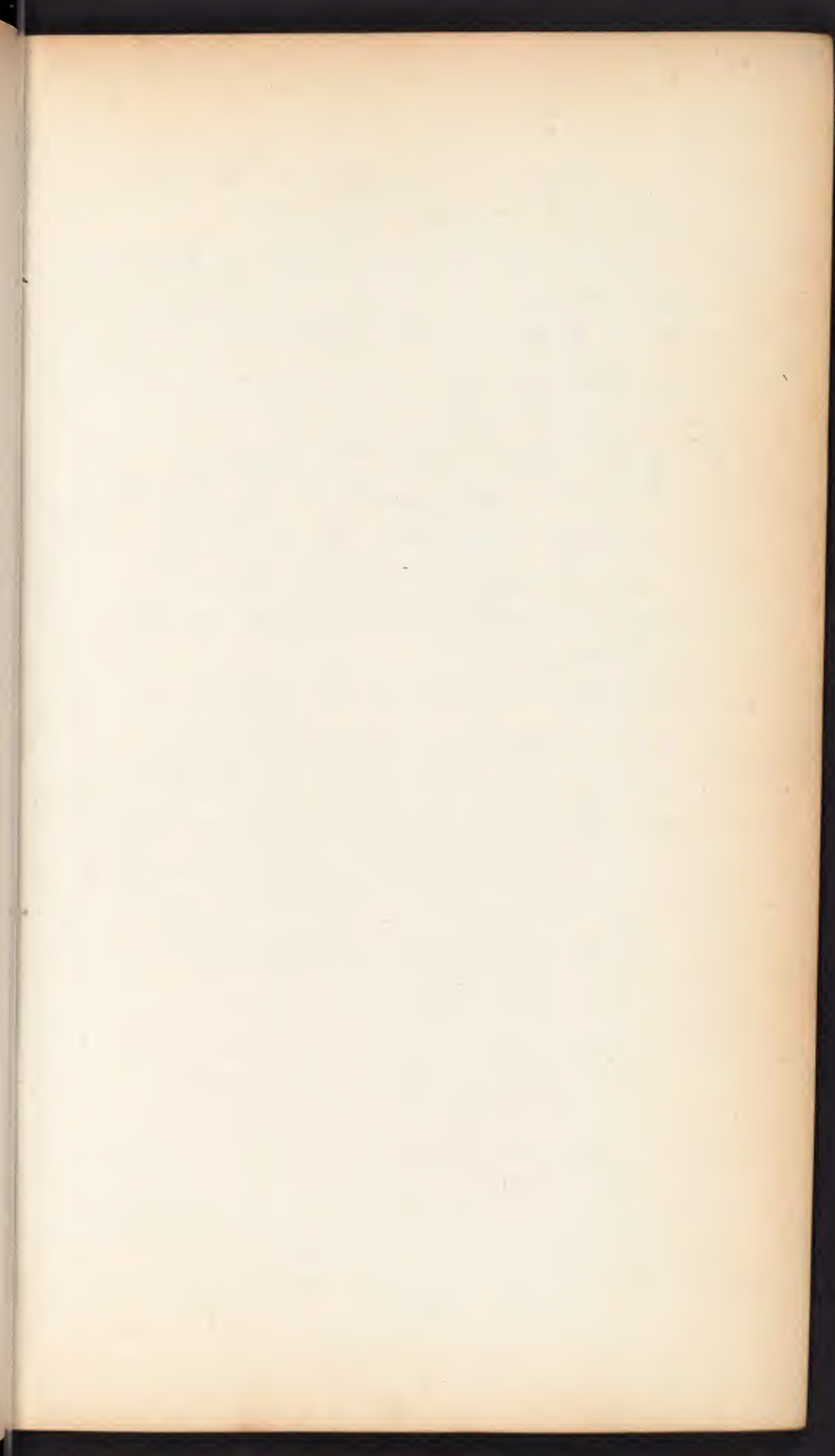
#### ERYSIPELAS.

*Definition.*—A peculiar form of inflammation attacking the skin and mucous membranes, taking its name from two Greek words which signify *red* and *skin*. It is also called St. Anthony's fire.

Encyclopedia







Cicatrization *Prong* - 1 - more profound than tissue  
and if bound down to prevent motion

2 Age - If recent 6-8 months don't touch - because the  
creeping is not well healing - 3 In non vital part  
not hazardous - In throat most unfavorable -

4 - More Extensive the worse the prognosis -

5 - If linear or growing out more favorable

6 - If very red don't touch the oozing is so  
great, put with that antiseptic washed &c

7 - If from change of position of parts (ankylosis)  
of bone has taken place don't operate

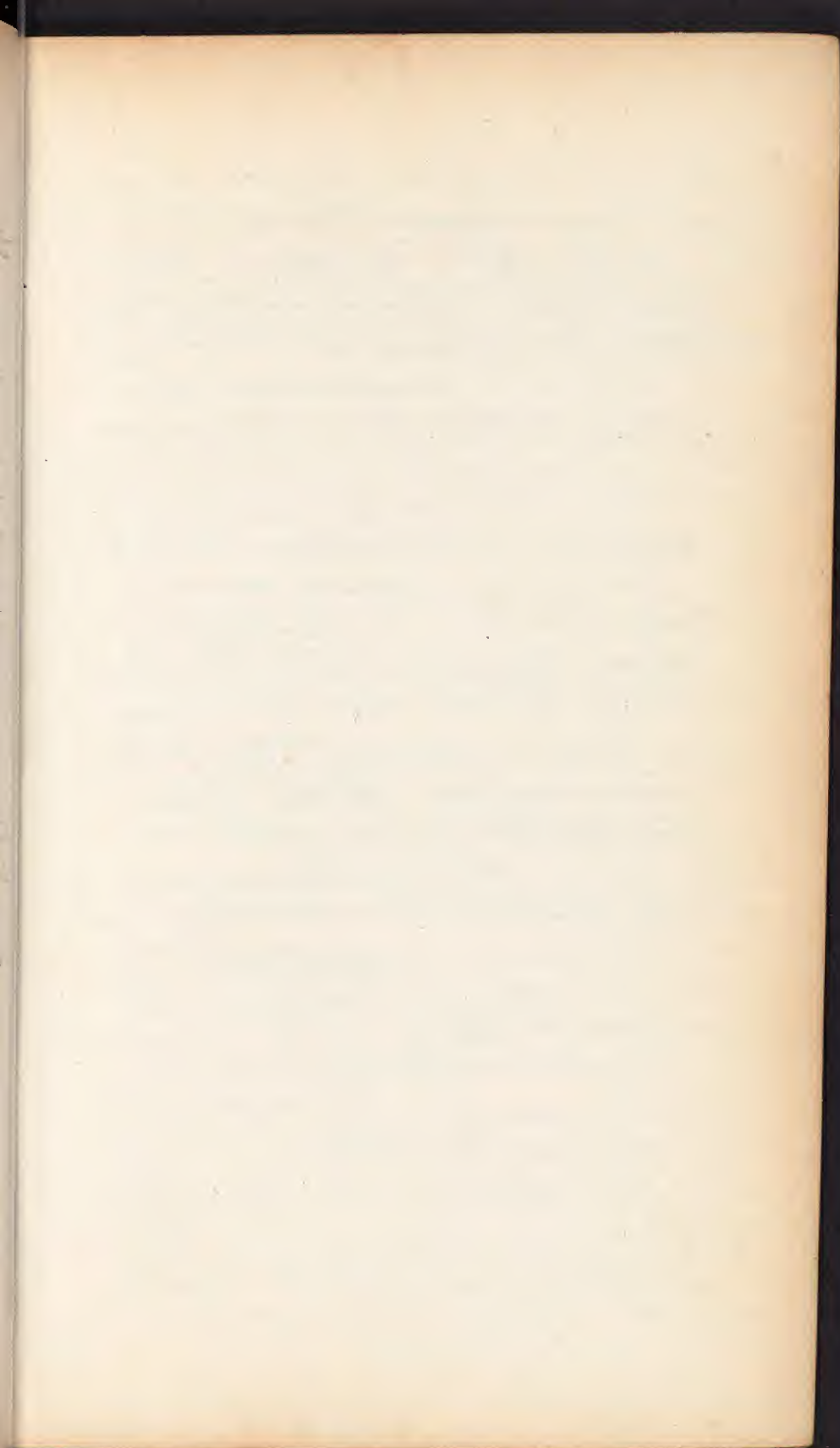
8 - Syphilis or Scrophula and general health  
bad don't operate

Treat - 1st Machinery to modify -

when in spite of everything it don't succeed -  
resort to excision in linear - Healed - Stripped

2 Prong - cut off superficial granulations and later  
excising - prepared to take out by creating fistula  
in extensive adhesion - must substitute healthy skin  
for morbid tissue - What some say you need  
material







*Division.*—Almost every writer has given his own classification. I adopt that of Mr. Lawrence. He makes four varieties:—1. Erythema. 2. Simple Erysipelas. 3. Oedematous Erysipelas. 4. Phlegmonous Erysipelas.

The "erysipelas ambulans vel erraticum" of La Motte, and the "universal erysipelas" of Hoffman and others, being mere modifications of one form or the other of the varieties made by Lawrence, should not be considered as *peculiar* forms of the complaint. The division into *idiopathic* and *symptomatic* may be retained.

*Symptoms.*—Vary in the different forms.

*Seat of the disease.*—Commencing on the surface of the skin, it gradually becomes more profound until it involves in some cases the subjacent cellular and other tissues.

*Question of its contagiousness.*—Still a disputed point. For my own part I believe that it is not. It may be epidemic.

*Causes.*—Predisposing—constitutional and local.

*Prognosis.*—Depends on location and extent—the health and condition of the patient.

*Diagnosis.*—May be confounded with common phlegmon.

*Treatment.*—Varies somewhat with the kind of erysipelas. May be divided into—1. Constitutional. 2. Local.

Being essentially inflammatory, *antiphlogistic* remedies are required in the first stage. Emetics are often useful. In phlegmonous and oedematous erysipelas, when sloughing occurs, it often becomes necessary to support the constitution.

The *local* remedies are very numerous. 1st, cold; 2d, leeching; 3d, scarifications; 4th, incisions; 5th, blisters; 6th, argent. nit. as applied by Davidson, or after the method of Higginbottom; 7th, tinct. of iodine; 8th, British oil; 9th, ungt. hyd. mit.; 10th, dry powders; 11th, compression, as recommended by Velpeau and Bretonneau. Examination of the value of these different agents.

#### ANTHRAX, OR CARBUNCLE.

*Definition.*—A deep-seated, circumscribed inflammation of the skin and cellular tissue, characterized by its hardness, peculiar burning pain, and termination in gangrene.

*Varieties.*—Benign and malignant.

*Causes.*—Constitutional and local.

*Symptoms.*—Vary with stage.

*Diagnosis.*—Pustule maligne may be mistaken for it; also, common furuncle, and erysipelas.

*Prognosis.*—Depends on location and general health of patient.

*Termination.*

*Treatment.*—Varies with stage.

#### FURUNCULUS OR BOIL.

*Definition.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Termination.*

*Treatment.*



## PERNIO, OR CHILBLAIN.

*Definition.*—Specific inflammation. The result of cold.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*—Divided into that proper in the early stages, and that required after vesication and ulceration have taken place.

## FROST-BITE.

*Definition* —A form of inflammation the result of the application of intense cold to any part of the body.

*Symptoms.*—Constitutional and local.

*Diagnosis.*

*Prognosis.*

*Treatment.*—Varies with degree, location and stage.

## BURNS.

*Definition.*

*Causes.*

*Classification.*—Hildanus, Boyer, Thompson, and others, make *three* kinds :

1. *Superficial*, involving merely the outer surface of the skin, and terminating always in resolution.

2. *Vesicular*, or *ulcerated*, in which the cuticle is raised into blisters.

3. *Sloughing*, in which the cutis is destroyed either immediately or subsequently, and forms either a “soft slough or hard eschar.”

This classification being simple is the one most generally adopted, but that of Dupuytren is much more scientific; being based as it is upon the nature of the textures and organs involved. In this, *six* varieties or degrees are made.

1. Erythema, or superficial phlogosis of the skin without vesicles.

2. Inflammation of the skin, with detachment of the cuticle and formation of vesicles.

3. Destruction of the corpus papillare, and rete mucosum.

4. Complete disorganization of the cutis down to the cellular tissue.

5. Conversion of all the superficial textures and muscles into eschars.

6. Carbonization of the whole thickness of the burnt part.

*Symptoms.*—Vary with the degree of violence with which the causes producing them have operated. Divided into—1. Constitutional. 2. Local.

*Diagnosis.*—May be confounded with erysipelas.

*Prognosis.*—Deduced from extent, depth, and situation; age and constitution of the patient; and the character of the cause.

*Periods of Danger.*—According to Dupuytren there are four :

1. The stage of irritation, or the period of the first shock on the system.

2. The stage of inflammation.

3. The stage of suppuration.

4. The stage of exhaustion or hectic.

*Post mortem.*

*Treatment.*—Varies with the degree, &c.

In the *first* and *second* degree, we must endeavor, by both constitutional and local measures, to prevent inflammation or limit its extension, and relieve pain.

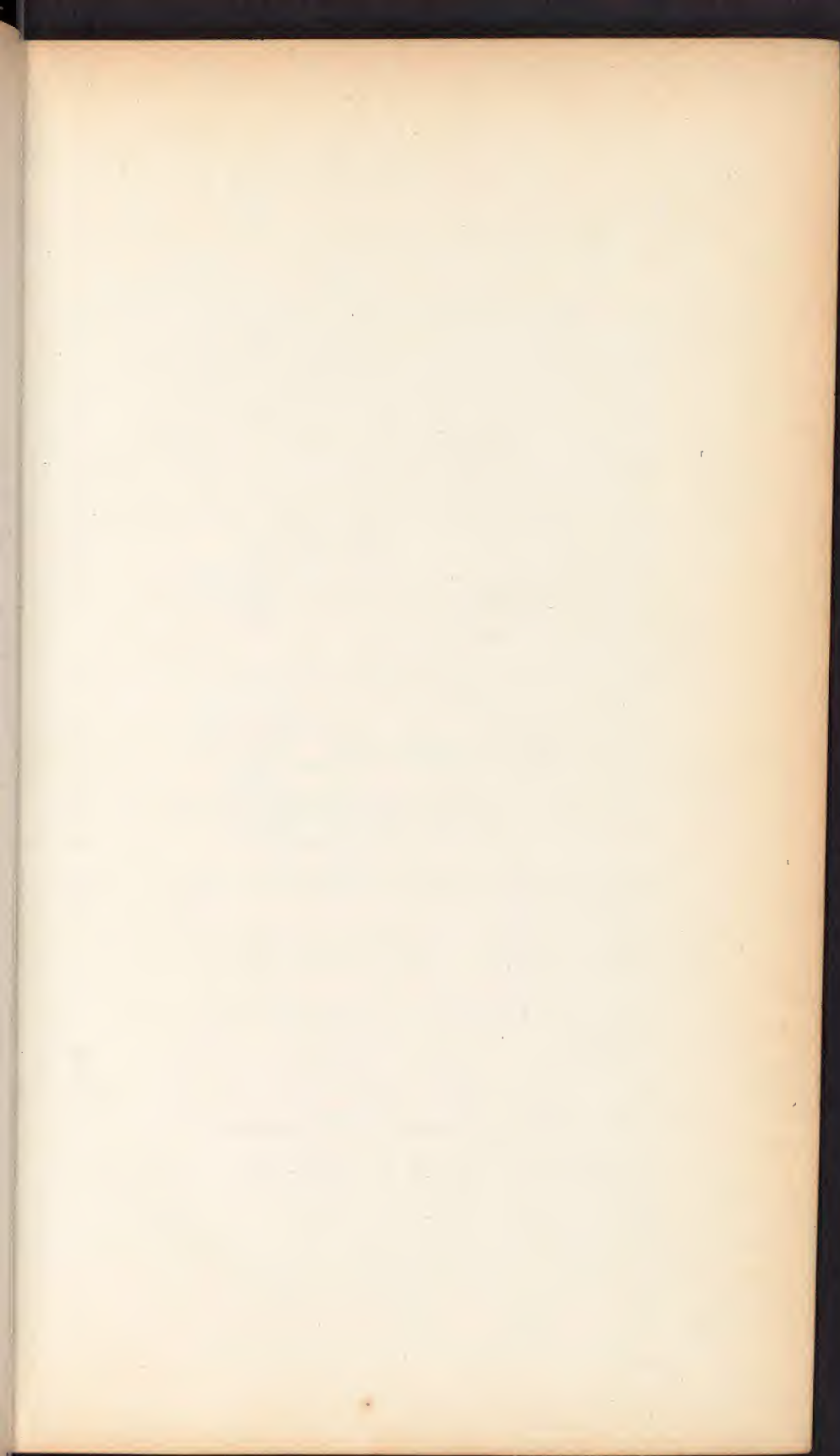
Abscesses grow by interstitial  
Deposit & Progressed abscession  
The abscess heals by stimulus of  
contraction & by calcification

3 operations for tapping in Hydropneumothorax  
beginning Pleurisy. 2. under Sternum  
Tympanic Cartilage 3. bet Cartilages of  
6 & 7 ribs. No Trocar.

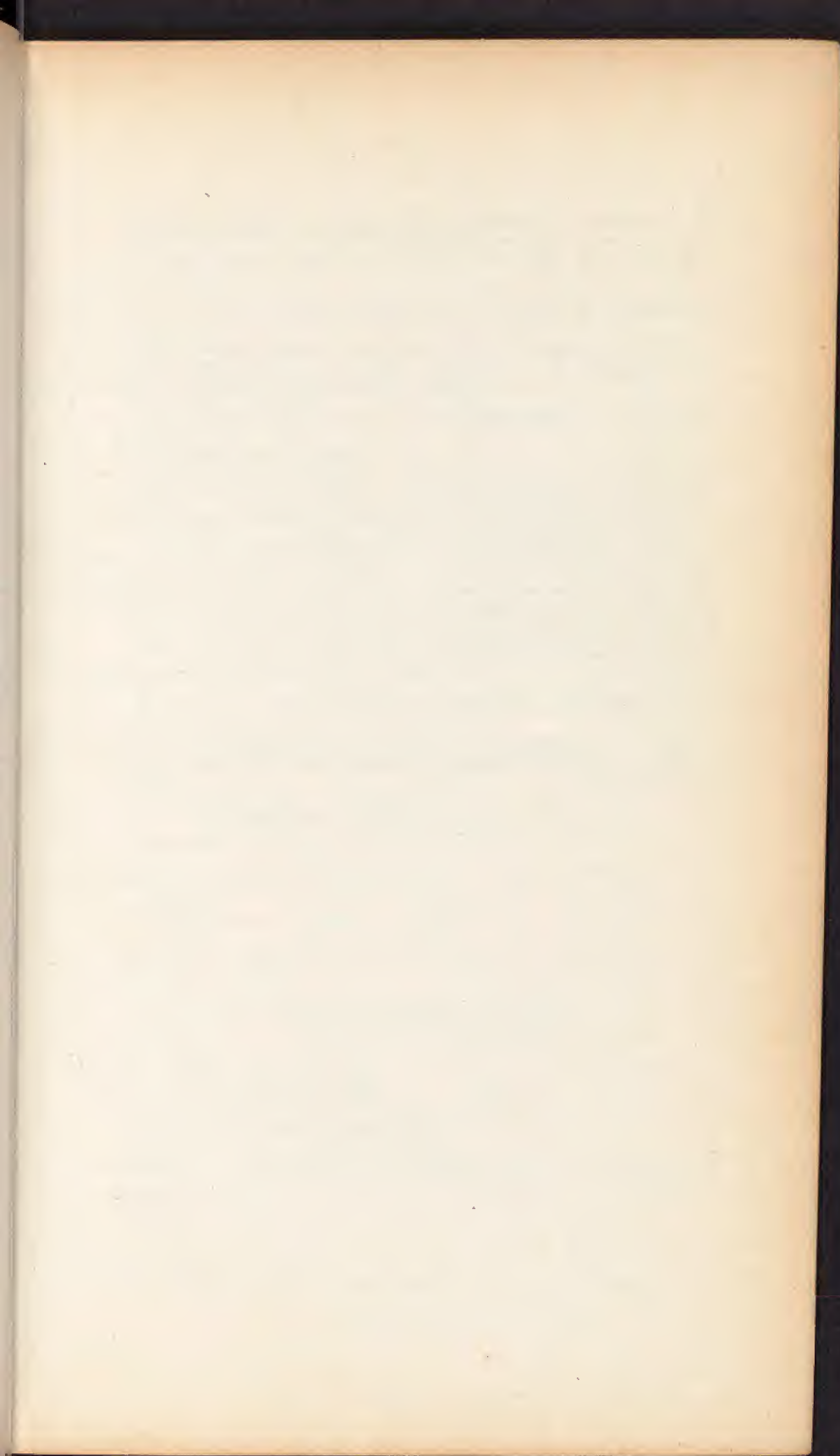
3. for Hydrops. ~~1. under Sternum~~ <sup>2. under Sternum</sup> ~~2. under Sternum~~  
And 3 Tapping

My dear Mr. Garrison  
I have just received your  
kind letter of the 10th inst.  
and am glad to hear from  
you. I am well and hope  
these few lines will find  
you the same. I am  
very truly  
Yours  
Wm. Lloyd Garrison













Should there be no *chill*, the best topical applications, at first, are cooling refrigerant lotions; should fever supervene, low diet, venesection, topical bleedings, and cooling medicines, must be administered; and to allay pain, it is proper to give anodynes.

When the patient is cool or prostrated, wait for reaction or promote it, and in the mean time cover the burnt part with raw cotton.

When reaction takes place, then resort to the antiphlogistic system.

When vesicles form, and suppuration takes place, apply, instead of the cold, the linimentum aquæ calcis, or a mild poultice.

The vesicles should always be punctured with a needle, and the fluid thus evacuated.

The cuticle must not be removed.

In the *third* and *fourth* degrees, the same general rules are to be observed.

Where the pus collects under the slough, free incisions are to be made, and poultices applied until the slough is detached, or until healthy granulations form.

In the *fifth* and *sixth* degrees, the patient is generally prostrated, and we have to resort at once to stimulants. Some advise *local stimulants*, or "the calefacient treatment;" but as the parts are nearly if not entirely destroyed, and must be detached by sloughing, it is best to apply warm poultices at once. During the detachment of the slough, the patient's strength must be supported.

The ulcers resulting from the detachment of the slough are generally indolent, and must be treated on general principles.

Where a limb is entirely destroyed, amputation must be resorted to as soon as reaction takes place.

*Local treatment during cicatrization to prevent deformity.*

*Local treatment of the deformities arising from the unfavourable cicatrization of burns.*

#### SCORBUTIC INFLAMMATION, OR SCURVY.

*Definition.*

*Causes.*

*Symptoms.*

*Pathology.*

*Prognosis.*

*Diagnosis.*

*Treatment.*

#### SCROFULOUS INFLAMMATION, OR SCROFULA.

*Definition.*

*Synonyms.*

*Tissues most liable to be attacked.*

*Age at which the disease usually manifests itself.*

*Causes.*—1. Hereditary. 2. Accidental.

*Characteristics of the "scrofulous diathesis."*

*Symptoms*—1. Constitutional. 2. Local. Both are modified by the organ or organs attacked.

*Diagnosis.*

*Prognosis.*

*Pathology.*

*Treatment.*—1. Local. 2. Constitutional.

## WOUNDS. *page 36*

*a* DEFINITION.—A recent solution of continuity in the soft parts suddenly occasioned by external causes, and attended at first by more or less hemorrhage. —(Cooper.)

*b* OBJECTIONS TO THIS USUALLY ACCEPTED DEFINITION.—A wound may be produced by violent action of the muscles alone; and by the protrusion of a fragment of bone. We may also have a wound occurring in bone.

*c* CLASSIFICATION OF WOUNDS.

*First division*—Is based upon the nature of the instrument inflicting the wound. Thus we have *incised, punctured, lacerated, contused* and *gun-shot* wounds.

*Second division*—Is based upon the introduction of some venomous, morbid, or putrid matter, into the wounded part. Hence we have *poisoned, specific, and dissecting* wounds.

*Third division*—Is based on the regions or parts involved. Thus we have wounds of the *head, face, chest, abdomen, &c.*

*Fourth division*.—Wounds are also divided into the *simple* and *complicated*.

*d* DANGERS OF WOUNDS.—These depend on—1st, the size, or the extent of injury; 2d, the weakness or strength of the parts involved; 3d, the importance of the organ; 4th, the size of the bloodvessels involved; 5th, the kind of vessel (artery or vein); 6th, the diathesis of patient; 7th, the age of patient.

*e* CAUSES OF DEATH.—1st, hemorrhage; 2d, tetanus; 3d, traumatic fever; 4th, erysipelas; 5th, hectic fever; 6th, gangrene; 7th, metastatic abscess.

*f* PROCESS OF HEALING.—Until recently, only *two methods* described: union by the *first intention*, and union by *granulation*, or the *second intention*. Professor McCartney has established the existence of two others, and we may, therefore, make four different processes of union, viz.:

1. Immediate union. *without the aid of lymph*
2. Mediate union by lymph or blood, or union by the first intention. *with*
3. Union by the modelling process.
4. Mediate by granulation, or by the second intention of Hunter.

*g* OBJECTIONS TO MCCARTNEY'S VIEWS.

MODE OF ORGANIZATION OF THE LYMPH AND BLOOD.

DIFFERENCE BETWEEN HUNTER AND MCCARTNEY RELATIVE TO THE NECESSARY PRESENCE OF INFLAMMATION IN THE HEALING OF ALL WOUNDS.

COMPARATIVE ADVANTAGES OF THE DIFFERENT MODES OF UNION.

*First* and *second* should generally be attempted; because when either takes place, we save *time* and *pain*, and obtain a *strong* and generally but *slightly deformed* cicatrix.

State the objections urged by many of the French authors and others against these two modes of union in large wounds.



a - certain exceptions & may have a wound  
by action of internal causes. as by violent  
action of muscles alone, or protrusion of part  
bone

Definition - Simple wound is one made with  
sharp cutting instrument involving no important  
organ. Comp. - reverse

1. size. the larger the more impor part  
of up - sounds around in head - is gone it will

2. Every organ when of low form of articular  
contusion not being able to resist influ-  
ence of - 3. the larger the portion the

danger - 4. exception if wound of 5 lines from the  
int. vein - may be from the cause -

6. some slightest wounds may sometimes  
give rise to greatest hemorrhage - but habit  
where wounds heal by suppuration and  
not by first intention - 7. The young the more  
the chance - 8. except the young

9. 1-2 may cause in several cases  
to days - may come on in 8 or 10 day -

12 hrs gets on down from of that - but  
then fever comes on or sup. 3. The fever may

Complication by the sympathy it creates  
in very many organs - 4. always watch the

head - but neglect - 5. never an early Comp  
always present when suppuration has

occurred - have no fever and slight reaction  
pass off by perspiration may kill patient

always look out - and give stimulant  
and tonics to remove cause - 6. famul

7. always occurs after suppuration fully established  
if patient is comatose vomiting blood etc.

8. secretion of the in character - results from

which best in wound for you, very  
to bind - cleanse wound and endeavor  
to make heal by 1st in of Hunter  
is by immediate touch / coarctation  
that they can tell that this is best  
for recovery of patient, certain wound  
forced on touch by 1st intention as  
when there are foreign bodies in  
lacerated wounds - not by 1st or 2nd  
Intended

Acute inflam - arising in consequence  
of irritation and predisposing sympathy, the  
irritation of wound - becomes greater in brain  
the irritation is transferred and produces  
inflammation - If patient has it then  
stump - blister - and head - great benefit  
from tinct of Aconite - Coma - and Stupor

f - Hunter's theory - Many unite in other  
ways - by Medial Union - and Medial  
1st Med Union - cut fingers squeeze out  
blood draw together and muscle unites nerve  
in short comes to unite by the interposition  
- then some deny and say must always  
have union. This is Medial union of  
macabrous - opposite theory like cancer -  
Union 1st not Medial union by lymph  
where lips of wound are held together by lymph  
interposed by blood is not proper in body - except  
in large coagula -

may be organized better infected but must  
be small - L. Mac process - form fast  
mat plasma - goes on to organization  
without granulation - forming only  
the immature must have wet moist  
layer upper layer - restoring clefts or  
loss which plasma runs granulation  
2 int of hunter - or granulation -  
4 nodes -

Inc. Part Diff from hunt - one day  
must have inf - other day if have  
it must unite - 1st Int out  
inflamm - only irritation if goes on to a  
higher grade have inflamm - and  
sub granulation - hunters, who crumple  
cannot have Adhesive Inflamm -  
Surgeon must select kind of wound  
attempt to not lacerated always  
have Union tied or sutured - because  
sical - stronger and firmer than 2  
inter - to save time - to save scar  
linear small and pliable -







Injured Wounds. a. One made with Sharp instruments, will bleed most since the vessels are cleanly divided, hence the chief danger is the hemorrhage. b. The direction is important, as by this knowledge we know something of the parts exposed gaping produced by muscular contraction we pay attention to this since we cannot treat the extremity placing limb in such a position as to relax the fibres, a rule then to look to position. 2 The bleeding depending on size of vessel - and on the vessel itself, difficult sometimes to distinguish whether arterial or venous, if it is purely arterial we will have blood spurting out if from vein, we will have a purplish blood if arteries are <sup>smaller</sup>, compress main art. of limb between wound and heart, and all the will cease but slight oozing. The loss of blood depends on kind of wound, whether oblique transverse or perpendicular, in transverse much less danger, owing to contraction of vessel and making it smaller.

3 Pain we must regard this, since the pain will excite this fever and inflammation give anodyne then to quiet it. c. The Treatment. 1<sup>st</sup> Arrest the hemorrhage by interpose actively, when we can't reach the bleeding vessel then we aid nature. If the artery is merely punctured it will bleed more than if was cut across, as the organic contraction and retracting reducing the size of caliber and also the length



CIRCUMSTANCES PREVENTING UNION BY THE IMMEDIATE OR MEDIATE PROCESSES.  
—Divided into—1, constitutional; 2, local.

First, or constitutional.

1. Bad habit of body.
2. Diseases of various kinds.
3. Simple fever.
4. Vitiating atmosphere in hospitals, &c.
5. Epidemic influences.

Second or local.

1. Atmospheric air.
2. Foreign bodies lodged in the wound.
3. Large coagula of blood.
4. Laceration or severe contusion of the parts.
5. Faulty dressings.

CHARACTER OF THE TISSUE BY WHICH WOUNDS ARE UNITED.—Already alluded to. It is a singular fact, that with the exception of bone, all tissues unite by a substance different from themselves.

The different classes of wounds may be next considered; and first of

### INCISED WOUNDS.

*Definition.*

*Extent and direction.*—Always to be regarded.

*Characteristics.*—Pain, gaping, hemorrhage.

The pain is owing to lesion of the nerves; the gaping to the ordinary elasticity and contractility of the parts, and also to the situation of the wound. The hemorrhage proceeds from a wound of an artery, or vein, or both, and its character is modified accordingly. State these modifications. Its activity is dependent upon the character of the wound, and the size of the vessel.

*Prognosis.*

*Treatment.*—General indications.

1. Arrest the hemorrhage.
2. Remove foreign bodies.
3. Approximate and retain the sides of the wound in contact.
4. Prevent or subdue inflammation.
5. Protect the wound from injury by appropriate dressings.

*First indication.*—Hemorrhage may be arrested either by an effort of nature, or by the assistance of the surgeon. Explain the process by which the bleeding is spontaneously arrested. We are not to wait for this, however, but must resort to the various agents afforded by our science. These are numerous, and are to be modified or varied according to circumstances.

1. When the vessel is deep and beyond our reach,—as in wounds of chest, abdomen, &c.—our best remedies are bleeding, digitalis, cold, rest, low diet, and positive quietude of mind.

2 When the vessel is accessible, we may resort to

- a. The ligature.
- b. Torsion. *very useful in wounds of small arteries*
- c. Machure.
- d. Refoulement, or reduplication.
- e. Compression.
- f. Refrigerants.
- g. Styptics.
- h. Suture.
- i. Plugging.
- j. Seton.
- k. Acupuncture.
- l. Electro-puncture.

The most important of these agents is the

#### LIGATURE.

*History.*—Mentioned by Celsus; but not generally employed until the time of Paré.

*Effect on an artery.*

*Effect on a vein.*

*Changes which take place in the blood contained in the vessel.*

*Changes which take place in the vessel itself.*

*Manner in which the ligature is discharged.*

*Cause of danger when the ligature comes away.*

*Time required for the obliteration of the vessel.*

*Materials of which ligatures are usually made.*

*Shape and size of ligature.*

*Mode of tying the ligature.*

*Method of applying a ligature.*—Depends on the location of the vessel.

1. When the vessel opens on a surface, as in the wounds of amputation, &c., we require a *tenaculum*, or *artery forceps*.

2. When the vessel is deep-seated, or when we wish to cast a ligature in the course of a vessel, as in aneurism, we may use the various *aneurismal needles*, or a *bent probe*. Objections to the needles. In all large wounds it is well to apply a ligature to both ends of the vessel. Why?

*Subcutaneous ligature.*

*Ligature d'attente, or ligature of reserve.*

*Scarpa's ligature.*

*Ligature and section of the vessel.*

*Temporary ligatures.*

#### TORSION.

*Definition.*

*History.*

*Arteries to which it is considered applicable.*

*Mode of performance.*

*Objections to its employment.*



circulation stagnates, and coagula are formed  
there are two the external and the internal  
As there stop the bleeding inflammation  
sets up plasma is effused and vessel is converted  
into a fibrous cord as fast as the first  
Anastomotic branch, If the vessel is large  
and abundant as a feed for liver if small will  
be absorbed. Hence the artery then near a  
branch as danger of 2nd Hemorrhage  
is imminent. In lacerated wounds clot is circular  
filling the vessel entirely in incised pyramidal  
twisted and reaches first branch. But wait for  
nature (unless a vessel is cut entirely across,  
with nearly blood) But if superficial cut it  
entirely across - or temp. artery. Some times  
have no external tumor & large blood flowing in  
to cavity. Change the position of patient to  
make him faint, or if strong open both veins  
on arm. If don't come to in 4 to 5 min - throw water  
if hemorrhage ceases give him Digitalis, Keep  
in a cold room, and at slightest approach  
of fresh blood, raise Hemostatic instrument  
ligatures also Employ E.S. Ligature for anastomosis  
&c. Not Employed until time that Pass. b.  
Art has 3 coats, in tying ligature dividature  
of these, the internal and middle, but in  
some cases, keep only to compress the coats.  
As a general rule - enlarge til till feel the coats  
yield, from this wound in coats have an effusion  
of considerable lymph, If the internal is not  
divided lymph not being thrown out, much  
danger of secondary hemorrhage after lig. comes  
away, the middle in vein is not resistant  
enough to cut and we have but a pocket  
ing of coats, and so much more danger



Suppose have have Secondary hemorrhage owing  
always to the same Effect, or to time of retention of  
ligature, in large vessels about two weeks, in  
small ten days, always comes away as a lump  
by progressive or ulcerative absorption allowing it  
to cut its way through, Many kinds of ligatures  
but are made of Saddle silk use but one color  
white as die note the silk. Waxy thread to prevent  
slipping. Ligatures applied in two ways 1<sup>st</sup>  
to a free surface and to an artery in its  
continuity. In order to apply ligature must use  
some artery forceps to draw it, Liston's Bull  
dog are the best pinch instrument good for  
nothing. Cardinal rule in tying is to draw  
out the artery, Apt here if not

Irregular Callus usually result  
 of Mal practice - or want of  
 power of Nature - 1. I want  
 to find if soft to yield on  
 section more recent more  
 for progress - 2. If limb is not  
 much injured or not you can remove  
 don't operate but if destroy fine  
 then endeavor to remove -

3. In section all ways make  
 compound fact - And hence the  
 extreme danger - And must  
 tell patient may lose or limb  
 4-5-6-7 etc Case inst. - part  
 of ender was Callus - has  
 existed 40 or 60 days - Can  
 sometimes break up after two  
 months - can't do it - generally  
 can gutter of soon gradually  
 approximating sides - when  
 any deferment - By should  
 has been att. to break down  
 callus & part hasten off  
 before if fracture then  
 all fails



Canterbury - generally employ actual  
canterbury because scars up vessel  
without causing slough.

If hemorrhage coming from a  
deep wound best to use white sec.  
where you wish to ~~use~~ to stop  
orzing red heat Rosin very good  
in cases of orzing in consequence  
of sloughing.

Suture - In cases of longitud  
wound to preserve the ~~patency~~ ~~surface~~  
the continuity of tube - might be  
of use in some cases - and by  
compression slightly diminishing the  
amount of blood going through it.

Plugging - good in some cases  
where impossible to apply any  
other remedy - advised to tie a piece  
of string - take a longer plug and  
close around around it -

Seton where there is an ulcerated  
an aneurismal trunk - where art with  
not bear ligature here seton

Electro Puncture - By passing  
an aneurismal needle and connect  
with pole of galvanic battery.

Allways tie up both ends of artery  
to stop regenerating new one



2 no indication to get away foreign body  
always do this by prying water over the part  
3- position

application of Compression - wound in  
arteria - look for vessel - seize artery in  
and finger slip small pieces of lint  
or sponge and fill up wound - then  
flow of blood will stop - especially where the  
blood comes out rapidly, after the  
operation let it remain until stopped by  
mechanical means by supparation -

2<sup>nd</sup> Rollers and Compression - number  
of channels washed and made or stop  
flow of blood not clotting and  
stop - in wound of constant useful when  
gelling cannot be the loss of blood stopping  
from application of compression

The Tourniquet - of Petit When apply  
tourniquet put it on when separated to  
surround limb when apply note a  
roller note gradual compression over the  
main artery of the limb plain over  
the compression to grade

Flow of Channel & Tissue.

In blood by coagulation

Styphes & Alkork - operate by Styphes  
and Mechanical means - Crocodile and  
Cotton stop very well -  
bad surgery to put any foreign body  
in a wound to remain in wound any  
length of time - stop much better by pressure

MACHURE.

*Definition.*

*History.*

*Arteries to which it is considered applicable.*

*Mode of performance.*

*Objections.*

REFOULEMENT, OR INVERSION.

*Definition.*

*History.*

*Arteries to which it is considered applicable.*

*Mode of performance.*

*Objections.*

COMPRESSION.

*Importance* — Useful either as a temporary or permanent agent.

*Points upon which it may be applied.* — Either directly upon the bleeding surface, or at some distance from it.

*Class of wounds in which it is most useful.* — Wounds of extremities, or over bones or firm tissues.

*Agents of compression.* — 1st, compresses; 2d, rollers; 3d, hand of assistant; 4th, tourniquet; 5th, garot; 6th, tissue itself.

REFRIGERANTS.

*Cases to which they are applicable.*

*Agents usually employed.* — Cold air, cold water, ice, &c.

STYPTICS AND ABSORBENTS.

*Cases to which they are applicable.*

*Agents usually employed.* — Salts of the metals, creosote, sponge, agaric, lint, cobweb, dry powders, &c.

CAUTERY AND CAUSTICS.

*Cases to which they are applicable.*

*Heat at which the cautery should be applied.*

*Agents employed.* — Metallic bodies of different shapes, mineral acids, argent. nit., &c.

SUTURE.

*Mode of application.*

*Cases to which it is applicable.*

PLUGGING.

*Cases to which it is applicable.*

*Manner of applying it.* — Speak of Sarra's proposition to "plug the artery" in ordinary hemorrhage.

SETON.

*Mode of application, &c.*



## ACUPUNCTURE.

*Mode of application, &c.*

## ELECTRO-PUNCTURE.

*Mode of application, &c.*

1 Manner in which the circulation is carried on in a limb, after the obliteration of a large artery.

1, Second indication.—Having arrested the hemorrhage, the next indication is to remove foreign bodies.

Character of these, generally speaking. Should coagulated blood be considered a foreign body?

Manner of removing these bodies.

Third indication.—The next indication is to bring the sides of the wound in contact and retain them in this position.

Agents employed to fulfil this indication. 1. Position. 2. Sutures of different kinds. 3. Adhesive straps. 4. The rollers. 5. Splints.

Fourth indication.—Protecting the wound from injury is the next indication.

Agents employed to fulfil this indication. Much more simple at present than formerly. The lighter the dressing the better, when we wish union by the first intention. Cold water dressing. When union by the second intention of Hunter is desired, the best top dressing is the "warm water dressing," or poultice.

Fifth indication.—To fulfil this indication, antiphlogistics, both general and local, are usually required.

## LACERATED WOUNDS.

a Definition. *one torn into sheets -*

b Causes.

c Characteristics. *obvious shock, want of power and knowledge*

d Prognosis. *unfavourable*

e Treatment.—General indications.

1. Arrest the hemorrhage when it exists.

2. Attempt, if possible, union by the "immediate or mediate" processes.

Mode of dressing to accomplish this. Irrigation and water dressings.

3. When suppuration takes place, promote the secretion by a poultice, or warm water dressing.

4. Keep down inflammation at first, but when suppuration is profuse, support the constitution.

5. When the extremities are involved, the question of amputation may occur.

## CONTUSED WOUNDS.

a Definition.

b Causes.

c Characteristics.

d Prognosis.

e Terminations.

f Treatment.—General indications.

1. When the contusion is complicated with a wound of the integuments, close the latter as soon as the hemorrhage (where it exists) is arrested, and foreign bodies removed.

1. By the enlargement of anastomosing branches of the artery this sometimes gives rise to regurgitating hemorrhage -

~~1. Interrupted Sutures - 2. Intermittent Sutures - 3. Permanent Sutures - 4. Sutures of various kinds~~

Interrupt, twisted, quilted and gloves, ~~1st~~ always pass through without withdrawing it, ~~never~~ let knot fall on one side of line of union, generally make them 1/2 inch apart, where wish to approximate the edges very nicely use twisted suture, Insert pins best, 3 quilled sutures, used to prevent scar being no resulting strain excellent for lacerations in perineum

For this we require a double ligature - never cut off ends of ligature - leave them free in order to tighten the quill when the tissue shrinks

4. Gloves Suture - Useful in cuts of small intestines and by adhesive Straps, these should never be taken off all at once for wound is apt to gape -

Liston's Straps very good but from their nature they cannot be used except in water dressing 4. top dressing - excellent - Rattone's

Should always be light - In wounds of extremities hot and cold water - but warmer in wounds of trunk, the lighter and more simple the dressing the better for patient -

5. Ind - Iodine - Purple - Mucilage - Mixture - Morphine - Tart - Antimony & ...



Lacerated wounds - are those that are torn  
into strips, to Characteristic, want of  
hemorrhage, nervous shock to them is no  
pain, vessels torn to strips, danger from the  
secondary hemorrhage and from tetanus  
the pain becomes very severe when  
reaction comes on. can hardly ever accomplish  
union by first intention. Prognosis - unfavorable  
in lacerations of location of the nerves  
and hence the occurrence of lock jaw - The  
want of hemorrhage owing to contraction of the  
muscles of artery and formation of clot

Treatment - tie up all the vessels or tie compress  
them so as to stop hemorrhage, also use warm so-  
lution secondary hemorrhage by tie up artery stops  
or attempt if possible union by the means of  
or immediate pressure warm or cold water  
dressing irrigation & drain off the blood by  
position, leave the parts to prevent movement  
of air deep all the strips of tissue together  
in position, use force when you wish to  
separate, here lift out the part and bring the  
edges of wound together, don't allow pus to  
collect when suppuration comes on, avoid  
inflammation, dressings of possible and when  
inflammation sets in use moist active anti-  
septic, antiseptic, de Caigef, for antiseptic dressing. The  
cold water dressing is required of the antiseptic  
treatment, if tetanus appears use Camphor spirit and  
symptoms appear use Camphor spirit and  
other required antiseptic, however a hypodermic



then after compression of the belt and prods of  
skin is left in place till the body is given the same  
give water and wrap the limbs in lint to prevent  
it from cooling & other situations, when he gets beyond  
pulsations and pulse is tranquil then washed off

Contused Wounds. - Resemble a lacerated wound  
surgical contents give very confused definitions. In some  
the integumental wound is certain cases  
divided into 3 kinds. Prognosis is dependent  
on kind of contused wound. - Diagnosed  
only by the coloration come in  
reddening and surrounded part healthy

1. Echyrosis. - Redness, red in others purple  
and if old yellow & brown spots. Absorption  
of blood, absorption changes color no more  
2<sup>nd</sup> form prognosis is unfavorable, 3<sup>rd</sup>  
prognosis is unfavorable

Punctured wounds. partakes of contused  
wounds - are as dangerous as almost of any wound  
if can't feel the needle don't cut for it.

Treatment same body dress the part with lint  
poultices.

~~Penetrating~~ Wounds are larger  
only more dangerous from hemorrhage are  
must be given by the cavity in which  
A & more

Wounds & Burns

These positive loss of substance  
also under incised wounds - no tissue  
lost as more the function is destroyed. Cover  
if possible and if can't but dipped  
in cold water & kept by the dressing  
process - when part cut off part  
is not by cutting surface on  
the cut surface, <sup>can not do anything</sup> Subcutaneous Character does not inflame

Laceratio Wounds - A - mean one part are  
torn into shreds by blunt edge or mechanical  
gun shot &c. C - by violent hemorrhage &c.  
by paralyzing artery - causes to contract while the  
paralysis is not complete the formation of clot  
prevents bleeding - watch however for secondary  
hemorrhage - scarcely any pain, the nerves have  
so completely paralyzed - treat all sympathy  
between them and brain and hence no pain  
C & attend to vessels till can pass in  
of late shreds and lay them carefully alongside  
(except in face) and endeavor to get them in  
1st intention avoid bandages and compression  
suture - if possible - A Antiphlogistic in  
wounds of trunk careful in cold applica-  
tion to extremities - cold or warm water dressing  
take out dead tissue because it acts by  
X Caution to use warm poultice. begin with  
alcohol water and when supp - warm moist  
poultices. ⊕ When limb entirely crushed primary  
amputation. If has compound fracture and  
can feel artery pulsate try and save  
limb. In very good constitutions and no



pulsation attempt to save - always wait for  
nature for reaction to take place - if takes for  
a week - use phlogesthes - don't wait until then  
set in -

Continued Wounds. a confused definition  
some where integuments are not wounded and  
open - when skin entire diff - 1. Echinymosis  
2 Thrombus - 3 to Pulp - Cause Location of  
capillary vessels - Diagnosis - Echinymosis may be  
conf - will produce echymosis every day  
is punctuated not uniform like rugose  
echymosis - and shaded - In stasis several  
hours elapse. Cuticle adherent in stasis not  
so in death. Thrombus part dried cold  
and discolored - a large no of emals vessels  
are rounded infiltration cellular tissue - Pulp  
here - part is soft skin sound -

Treat - not to apply wrap lotion and wait  
for nature. If at 6 or 7 days - still there  
stimulate by painting - Louis Iodine Local  
Ligament. Thrombus local - first unless  
part almost bursting - don't open when  
bandage and cold water dressing and  
in milk circulation - if clot were loose and  
danger of bursting - use the emals  
man's and wash - don't touch clot let  
it come away by softening - If these fail tie  
up main artery - warm water dressing of  
clot - in case of - if inflammation comes  
on and suppuration open and keep open  
inflammation - When pulp - don't tie  
tied on warm dressing to make through



Punctured - a one made small instrument  
not very deep. Can be very dangerous except when  
in joint hanging on tetanus and death -  
depends on instrument and shape of  
wound also - a round one will make a  
linear wound but edges are turned in when  
sharp knife the plane of tissue created  
or created - If instrument is turned with  
one transverse - back - however large  
pain - tetanus - sometimes no bad  
symptoms - inflammation and narrowing  
of part - Don't cut for an needle if can't pull it  
put on warm poultice when possible itself  
take it out - Rusty nail - foot - danger is  
tetanic irritation sooth irritation keep down  
general irritation keep part saturated  
with Laudinum and water if necessary  
thrashing - Opium Camph - Tart Ant - rest  
counter irritation on spine - if spasm  
then In - if edges created glairy fluid  
re dilute wound - Instead of Iodine  
sublate Silver and warm dressing

2. Keep down inflammation by antiphlogistics, both local and general. Dress lightly, &c.

3. In severe contusions, it is often necessary, at first to *stimulate* the patient, but this should only be done when the prostration is great.

4. After the inflammation becomes chronic, or when the blood is not readily absorbed, use stimulating frictions, bandages, &c.

#### PUNCTURED WOUNDS.

*Definition.*

*Causes.*

*Characteristics.*

*Prognosis.*

*Treatment.*—General indication.

#### PENETRATING WOUNDS.

*Definition.*

*Causes.*

*Characteristics.*

*Prognosis.*

*Treatment.*—General indications.

#### POISONED WOUNDS.

*Definition.*

*Causes.*

*Characteristics.*

*Prognosis.*

*Treatment.*—Depends on the character of the cause.

1. When they are produced by the stings of insects, the remedies are—*cold applications, volatile alkali, saline solutions* to the part affected; and occasionally *bleeding, diet, and purgatives* are required.

2. When they are produced by the bites of venomous or rabid animals, the remedies are a *ligature above the wound, excision of the part, cupping or suction of the wound, caustics, poultices*, and often *constitutional remedies*, according to the condition of the patient.

3. *Dissecting wounds* are best treated by *suction, caustics, leeches, a blister above the wound, a poultice or cold to the part*, and *constitutional remedies*, according to circumstances.

#### RABIES.

*Definition.*

*Causes.*

*Time of appearance after the reception of the injury.*

*Symptoms.*

*Pathology.*

*Prognosis.*

*Diagnosis.*

*Treatment.*

## GUN-SHOT WOUNDS.

*H* Definition.

*b* Varieties.

*c* Characteristics.—Constitutional and local.

*d* Wind wounds.—How produced.

*e* Gun-shot wounds usually contain foreign bodies.

*f* Pathology of the wound.

*g* Prognosis.

*h* Treatment.—Several indications. Modified by nature of wound.

*i* 1. Attention to general condition of patient at the time the wound is received.

*j* 2. Arrest the hemorrhage where it exists.

*k* 3. Examine wound.

*l* 4. Remove foreign bodies, if possible.

*m* 5. Dress the wound. Cold applications should first be tried, and if these fail to afford relief, apply warm or hot.

*n* 6. Guard against secondary hemorrhage.

*o* 7. Prevent the formation of pus.

*p* 8. Prevent inflammation if necessary by *antiphlogistics*.

*q* 9. Support the general health, if necessary after suppuration is established.

*r* 10. Heal sinuses.



## Gun Shot Wounds.

First. If prostrated mentally or Physically - bring him out of condition before laboring around. Arrest hemorrhage. Now examine around place the patient in position when the wound was received - and if large enough examine with finger - if too large or deep examine with the Gun Shot - probe use no violence at all - may open a vessel by it - don't force on hand it a little hurried it to find the track - then the removal generally use the forceps if a piece of cloth - great objection is the bullet forceps are too large - we can generally remove except when in bone. If the bullet has lodged in the bone allow the bullet to come out by suppuration if only superficial to expand opening and get out. Sometimes use a Band of Ecorp when we can't expand the orifice, must always have corrected. In Bone then, remove the foreign body if possible. Sometimes lodged on the other side. Make a counter opening when you can find out where the body lies. 2<sup>nd</sup> If you find the body in a part liberally supplied with blood - and you can not reach it without endanger the large vessels - stop it alone.

The next is to what

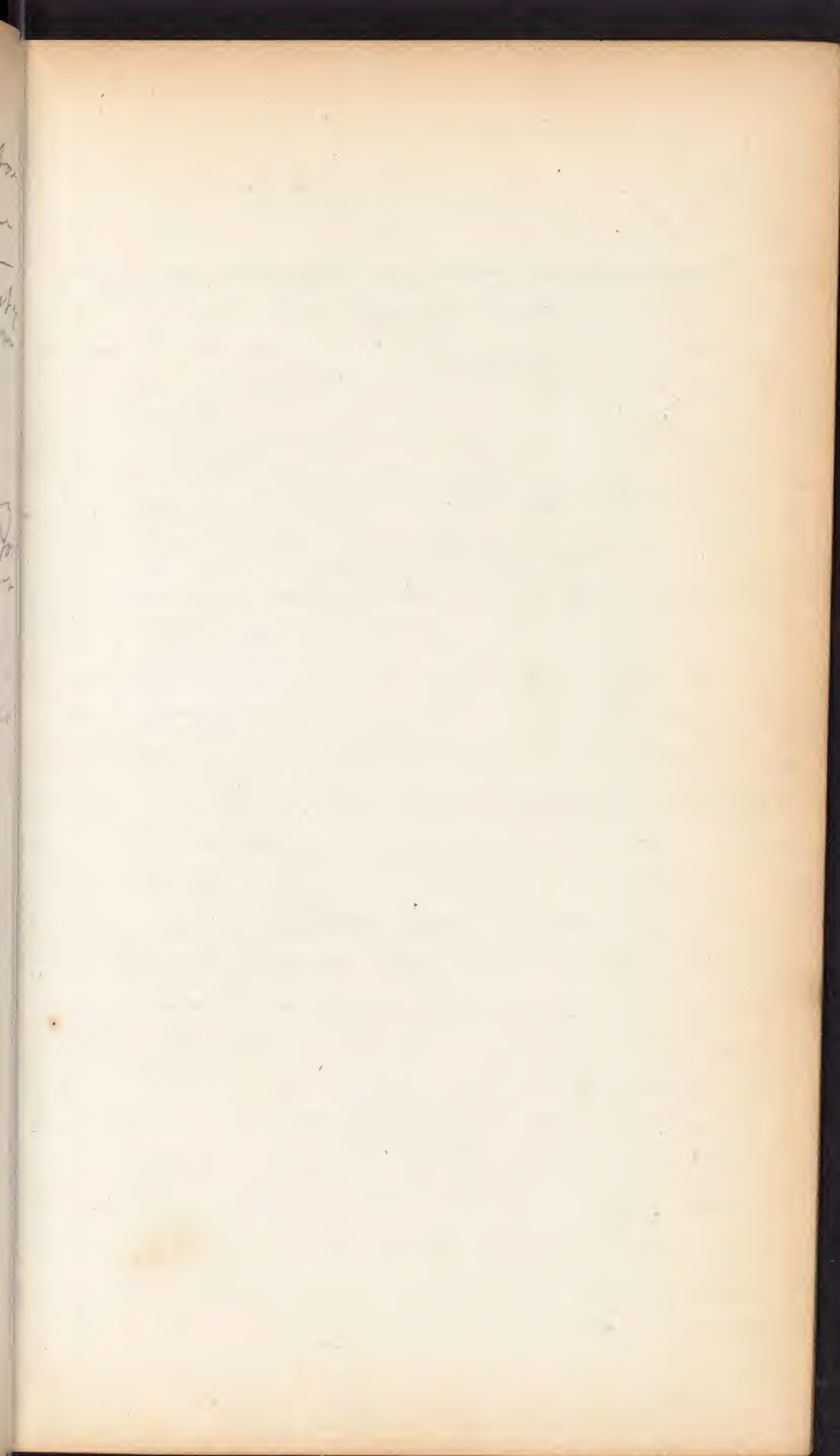
Dressing - depend on the Situation  
wound - if on the extremity cold  
water dressing if chill come on ~~let~~  
~~the~~ supply warm, if from a true R  
warm and sometimes. Use Antiseptic  
Treatment - but govern by extreme  
inconvenience, great danger  
of Secondary hemorrhage - from the  
5<sup>th</sup> to 12 day. Pain sometimes be too  
in if the dressing be opened - find  
swelling and acute inflammation  
set in. begin most active Anti Phlog  
bleed him fresh him - give him  
sedating doses and induce a  
suppuration sometimes come in  
supposed very unsafe - as found  
some and watch side when the  
suppuration ~~comes~~ on - and  
deal by cutting open sinuses.  
If shock with shock - pick out  
shot if not covered - Powder -  
wound. Take needle and pick  
out all ground powder, cover the  
part with cloth and Muscular  
Propriety of a - putation. If end  
is possible try to take care him  
try to save him - if Central and if no  
suppuration suppurate. Also what the  
parts are covered.



Characteristic 1. Const. 2. Local - 1. great  
nervous shock and tremor - 2. Depends on  
shape of projectile on the density of the  
tissue wound of entrance always 1 wound &  
smooth wound of exit evacuated and torn  
rare and dense medium - d. dependant  
on the action of spent ball - e. more or  
less discharge of blood sometimes profuse  
hemorrhage - per saltum - indicates large  
vessel involved - as a general rule pain  
not so intense - sometimes great pain  
show great lesion of nerve or important  
organ - often indicates course of  
ball. Treat - a' unless patient is  
bleeding profusely always attend to the  
constitution and if depression stimulate  
b' - If internal try everything to stop  
bleed by taking up main artery - re-  
c' place him in position in which he  
was when he received wound - If finger  
out finger - Gunshot probe <sup>not to be used</sup> if it <sup>is</sup> <sup>in</sup> <sup>the</sup> <sup>body</sup>  
d' if gunshot wound is never to be  
compressed - because it must heal  
as a general wound will heal by con-  
traction - best dressing but dipped in  
water and held in position by adhesion  
plaster and oil silk - if in eye  
cold water nulls nervous shock  
as simple as possible - a puncture  
not good because because it weakens  
the back it produces debility



constrict - governed by circumstances  
stimulating or sedative - pain  
don't use ether - give him opium -  
guard against secondary haemorrhage  
usually safe to 5<sup>th</sup> day - from  
this to 30 day - watch - sometimes  
long after this - in consequence  
of the bursting of small art,  
pumping out blood and causing  
necrosis - in Arteria hypoc-  
artia and tie it or main artery  
7 - Pass, dilate wound in trunk.  
Dilate - in 44 - <sup>only 2</sup> inflammation coming  
in and causing enlargement and  
more danger - limb distended &  
thinning







## SECOND DIVISION, OR DISEASES OF THE TISSUES.

### I. DISEASES OF THE BONES.

#### GENERAL REMARKS.

BONES MOST LIABLE TO DISEASE.

CAUSES OF DISEASE.

EFFECTS ON CONSTITUTION.

CLASSIFICATION.—All diseases of the bones may be ranged under three heads.

1. The non-malignant diseases.
2. The malignant diseases.
3. Wounds and fractures of bones, and their occasional results.

#### FIRST HEAD, OR NON-MALIGNANT DISEASES.

- a. Neuralgia.
- b. Atrophy.
- c. Hypertrophy.
- d. Osteitis.
- e. Abscess.
- f. Ulceration.
- g. Necrosis.
- h. Mollities ossium.
- i. Fragilitas ossium.
- j. Rachitis.
- k. Tubercle in bone.
- l. Osseous aneurism.
- m. Exostosis.
- n. Hydatid encysted tumor.
- o. Serous encysted tumor, or spina ventosa.

#### SECOND HEAD, OR MALIGNANT DISEASES.

- a. Osteo-sarcoma.
- b. Medullary sarcoma.
- c. Fibrous sarcoma.
- d. Fungus Hematodes.
- e. Melanosis.

#### *First Head.*

### I. NEURALGIA.

*Diagnosis.*

*Causes.*

*Symptoms.*

*Prognosis.*

*Diagnosis.*

*Treatment.*

## II. ATROPHY OF BONE.

*Definition.*

*Varieties.*

*Causes.*—1, diseases of various kinds; 2, retardation of structural growth; 3, old age.

*Effect upon the strength of the bone.*

*Appearance of the bone.*

*Analysis of atrophied bone.*

*Treatment.*

## III. HYPERTROPHY.

*Definition.*

*Varieties.*

*Causes.*—1, exercise; 2, excessive nutrition in different bones; 3, inflammation; 4, degeneration of soft deposits upon bone, the result of periosteal inflammation.

*Effect upon the strength of the bone.*

*Symptoms.*

*Appearance of bone.*

*Treatment.*

## IV. OSTEITIS.

*Definition.*

*Question of its possible occurrence.*

*Varieties.*—1. Acute. 2. Chronic.

*Persons most liable.*

*Bones most frequently attacked.*

*Causes.*—1. Constitutional. 2. Local.

*Symptoms.*

*Diagnosis*—May be confounded most readily with periostitis and endostitis.

*Prognosis.*

*Terminations.*—Resolution, atrophy, hypertrophy, suppuration, ulceration, mortification.

*Dissection.*

*Treatment.*—Depends on variety of inflammation, its intensity, and the bone attacked. The remedies required may be either general or local, or both combined.

## V. ABSCESS IN BONE.

*Location of matter.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*

## VI. CARIES, OR ULCERATION IN BONE.

*Definition.*

*Confusion among authors as to its precise nature.*

*Bones most liable to be involved.*

## Disease of Bones —

In treat modify fluids that compose the animal parts. Certain bones are more liable than others to get disease, find this to be in ratio of organization.

Neuralgia of Bone, nerves take on disease, generally begins in a pubescent or young child — causes the part pain not augmented by pressure and not increased or by shock not complicated by swelling — and generally an enemic constitution, if inflamed shock will produce pain — treat frequently give full doses of Iron friction Seltzer bath, and rub Aconite tea, good diet fresh air exercise — Atrophy, want of arterial blood, patient must be constantly exposed to constant friction, effect of inflammation — would simple inflammation. Abscess, Inflammation combination of Bone I found Acute or Chronic — To look at individuals — young — persons most liable also find Spongy bones more liable than with great more active — divide causes into Local & Systemic — and none more than Spinal — Confined almost exclusively to particular bones if by horizontal as head — of Scapula the Spongy bones — Long Bones in Rheumatism any thing inflame with hemorrhage.



When bone takes inflammation developed  
always a particular kind of Nutrition but  
so soon as an additional amount of part of  
blood the deposits of earth ceases and  
the animal matter exposed. and when  
Inflamm stops the earthy matter is then deposited  
Why is bone bent as it inflames the bones get  
stiffened and the weight will cause bending  
It may go on ulceration, necrosis, or suppuration  
Sometimes abscess, diffused as well as  
simple Abscess. Inflamm of Pott's the  
swelling commences in the part  
after the bone gets inflamed the color  
is a shining redness - compounded with  
the cedematous one. Symptoms distinct in  
acute a soft fluctuating tumor always  
present. Chronic inflammation a  
set of symptoms constitutional disturbance  
very small, if have a given into few  
look to some chronic inflammation - Local  
inflamm very little change in color  
pain not increased on pressure,  
if be const disorder it will not  
be inflamed - pain local, position  
make sleep well at night  
to do so for a long time  
and healing healing pain going  
the chronic form see the symptoms  
Inflamm the patient and all  
of bone medicine, all the

Sometimes will go on to abscess - 2 kind  
suppured abscess - and one in a  
sac (indication of each - acute inflam  
showing changed sensation - a  
throbbing pain instead of burning  
pain - substitute, a warm douches or  
a plaster - after the sup. is on make  
a free incision inc. about the size  
of finger nail - if abscess with pus  
internal abscess - sup. some - cold  
but aching pain worse at night, pain  
with out increase under that spot a  
circumscribed pain a circumscribed  
abscess - must lay bare the bone.

Caries, 1st Variation of Bone Resor  
in character depending to pull to inward  
into phlogistic treat, only flat bones  
that take place is in skull - most only  
in spongy bone - Modified by the  
cause, from simple focal inflam  
located any where - lymph capill &  
focal - divided into 3 grades  
If inflam study the patient, if open  
large enough break under - and  
patient pain acute, in chronic no  
pain, 1st treat by active treat.  
As ~~if~~ opening pain getting better  
As wounds heal but after gets worse  
the inflammation, localizes and bone  
supple - discharges (as) through diff  
treat



3<sup>rd</sup> Stage patient constitution beginning  
to sink no pain in bone.

1<sup>st</sup> treat, no matter where it is. But  
R. at rest - much fever. Use  
warm applic. or cold, attention  
to Constitution. 2<sup>nd</sup> Don't cup  
or leech apply blist. Counter irrita  
and Rest - for cons. - alterative  
medicine - Safest rule in 2<sup>nd</sup> Stage  
And constitution not gone let bone  
heal, 3<sup>rd</sup> Stage either cut out

or diseased bone. But if or cut  
if only one or two bones out. R.  
make resection, sometimes scrape if  
the Caries for when to stop R. is  
more resistance and comes of like thing  
sometimes. Sometimes open the part  
to apply the actual cautery.

Don't apply Acid - can't limit it &  
sometimes excite inflam. - Condition of  
caries bone if get a piece of ivory &  
soak in water and dry it put a  
little acid, and if all dissolved by  
each of remedy -

Morris death of Bone  
Don't mean simply death, what means  
death, Louis first one to see

Divided 3 kinds of terminal.  
Internal. 3 Complete - always to continue  
with. Phenomena depend on case



1<sup>st</sup> inflame - 2<sup>nd</sup> detached and new  
bone & health returning - 1<sup>st</sup> to continue  
with simple abscess, superficial swelling  
short time ~~the~~ goes down - Internal  
and Com plete don't occur - 2<sup>nd</sup> for  
ulcer impossible to distinguish unless  
you probe, he resisted - if tap it with finger  
when loose and. necrosed - but if cannot  
will not ring - 3<sup>rd</sup> Stage bone gets  
well - Suppose have internal portion  
Ruled - 1<sup>st</sup> thing attract at. abscess  
when 2<sup>nd</sup> Stage symptoms becomes more  
obstinate, pains augmented, must  
open the bone to save it. The dead  
portion ~~does~~ becomes shut up.

Complete Inflam very intense &  
more Com plex - either to take away  
part of bone -

As soon bone dies how left parts  
the phenome must characterize the  
Suppuration, 1<sup>st</sup> red line demarcation  
2<sup>nd</sup> yellow or white and then  
dead bone broken off - owing to the  
absorbtion action separating the  
living from the dead bone - as  
soon as dead bone nature forming  
condition to take its place, dead  
bone must be taken away -



*Varieties*—Simple, syphilitic, strumous, malignant, &c.

*Causes*.—1. Constitutional. 2. Local. The seat of the disease, when constitutional causes operate in its production, is modified very much by the character of the cause.

*Symptoms*.—Constitutional and local. Modified by the cause, stage, location, and extent of the disease. Usually three stages.

*Diagnosis*.

*Prognosis*.—Often confounded with osteitis, periostitis, endostitis, necrosis.

*Dissection*.

*Chemical analysis*.

*Treatment*.—Both constitutional and local remedies will usually be required, and these must be modified to suit the stage, intensity, and cause of the disease. In the *first stage*, antiphlogistics are usually required. In the *second stage*, emollients or stimulants, to change the character of the ulcer, are generally employed. In the *third*, we must either *cut out the diseased bone, destroy its vitality, or remove the limb*.

The cause must always be removed, if possible; and if *specific* in its character, *specific* remedies or alteratives are to be employed.

## VII. NECROSIS.

*Definition*.

*Confusion among authors as to its precise character*.—Louis was the first to describe it accurately.

*Bones most liable*.

*Causes*.—1. Constitutional. 2. Local. Most of these operate through the medium of the periosteum, either *internal* or *external*. Some effect the bone primarily.

*Remarks in reference to the influence of the periosteum*.

*Varieties*—1. EXTERNAL. 2. INTERNAL. 3. COMPLETE.

*Symptoms*.—Constitutional and local. Often obscure. We have usually *three* distinct stages in the progress of the disease.

1. The inflammatory stage.
2. The stage of suppuration and detachment.
3. The stage of reparation.

In *external* or *superficial necrosis*, the local symptoms, in the *first stage*, are a dull or acute pain, soon succeeded by a flattish tumour, in which fluctuation is after a time observed. The skin next changes its color, ulcerates, and pus is discharged. There is always more or less fever.

In the *second stage*, the swelling diminishes in size, the bone is felt *bare, rough, or smooth*, according to the nature of the action preceding its death, often rings when struck, and when we can see it is either *whiter* or *darker* than natural. The pus discharged is either laudable or unhealthy. There is sometimes inflammatory fever in this stage, but often we have *hectic*. The bone is gradually loosened and detached by a process termed "*exfoliation*," which is very analogous to sloughing of the soft parts.

In the *third stage*, the local symptoms become milder, the constitution improves, and the new bone is formed.

In *internal* or *complete necrosis*, all the symptoms are more severe; and in



the *second stage*, the swelling does not diminish in size so much as in external necrosis.

*Process of separation described.*

*Manner in which the sequestrum or dead bone is disposed of.*—Depends upon its being *external, internal or complete*.

*Process of reparation described.*—Varies in the different kinds of necrosis.

*Character of the new bone and its various stages of organization.*

*Cloaca.*—How formed, shape, &c.

*Prognosis.*

*Diagnosis.*

*Treatment.*—General indications.

1. Remove the causes.
2. Palliate the symptoms.
3. Remove the dead bone after its detachment, and sometimes detach it with our instruments.
4. Treat the limb, where the entire shaft of the bone has been destroyed, as you would a fracture of the same part, until the new bone is sufficiently firm.

#### VIII. MOLLITIES OSSIUM.

*Definition.*

*Causes.*

*Persons most liable to be attacked.*

*Symptoms.*

*Prognosis.*

*Diagnosis.*

*Pathology.*

*Treatment.*

#### IX. FRAGILITAS OSSIUM.

*Definition.*

*Causes.*

*Persons most liable to be attacked.*

*Symptoms.*

*Prognosis.*

*Diagnosis.*

*Pathology.*

*Treatment.*

#### X. RACHITIS.

*Definition.*

*Causes.*

*Persons most liable to be attacked.*

*Symptoms.*

*Diagnosis.*

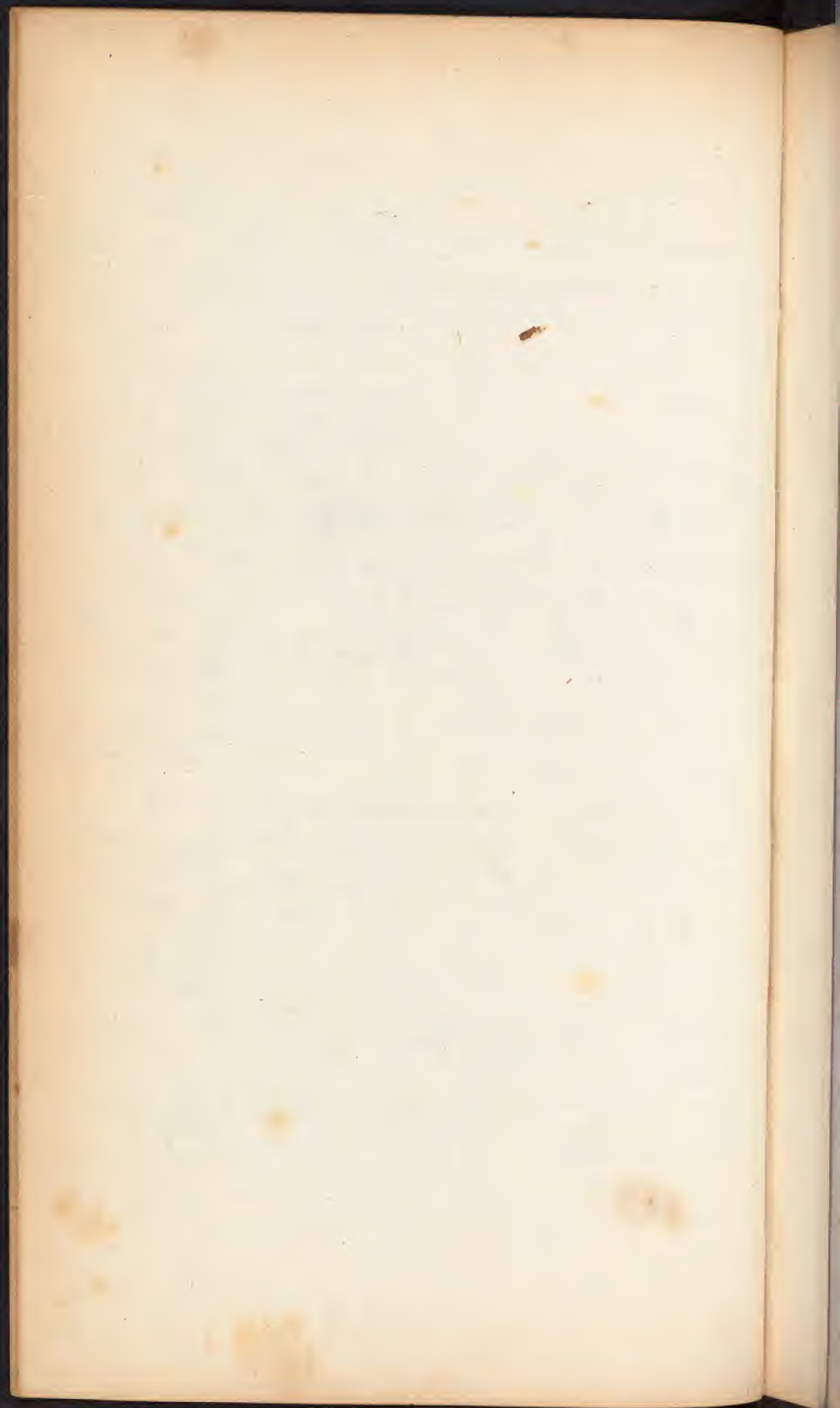
*Prognosis.*

*Pathology.*

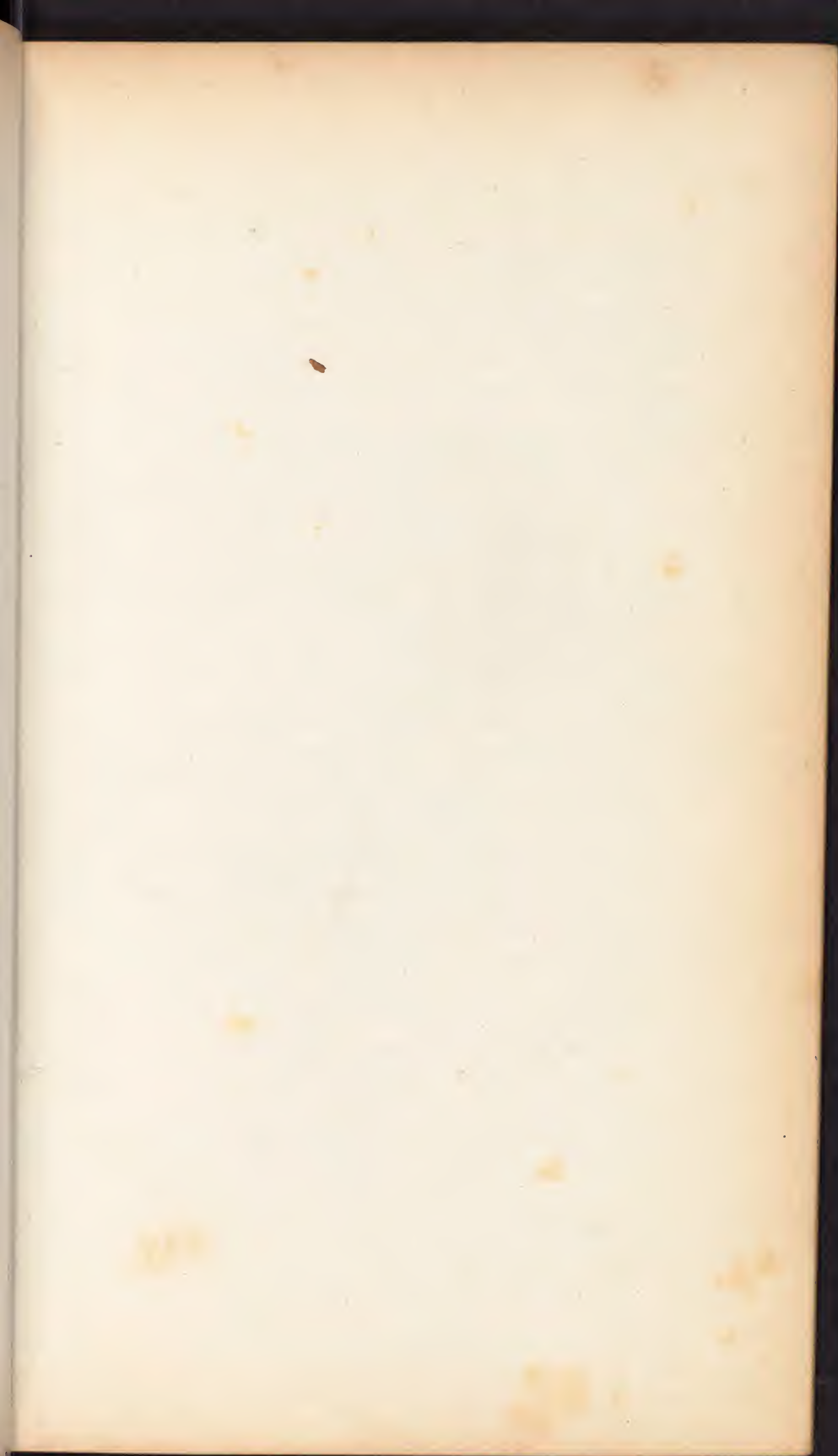
*Treatment.*

osteitis must always attack hard & compact organization not complete enough to resist action, an important in diagnosis may be occasioned by any thing that will produce inflammation, can occur during the somnolence of the pericardium is like the ~~for~~ bone with ~~form~~ if the pericardium not there, 3 stages. (where bone is thrown off by exfoliation & cicatrix will cut a pit - The new bone is always rough and larger, rough parts, where the put must get out and will pain 2<sup>nd</sup> made by deficiency of plasma the openings here large and much more irregular - proptosis, if I can tell easily by - 2<sup>nd</sup> stage pass a probe, the instrument will sep. the dead from living bone - proptosis always be guarded - for that -

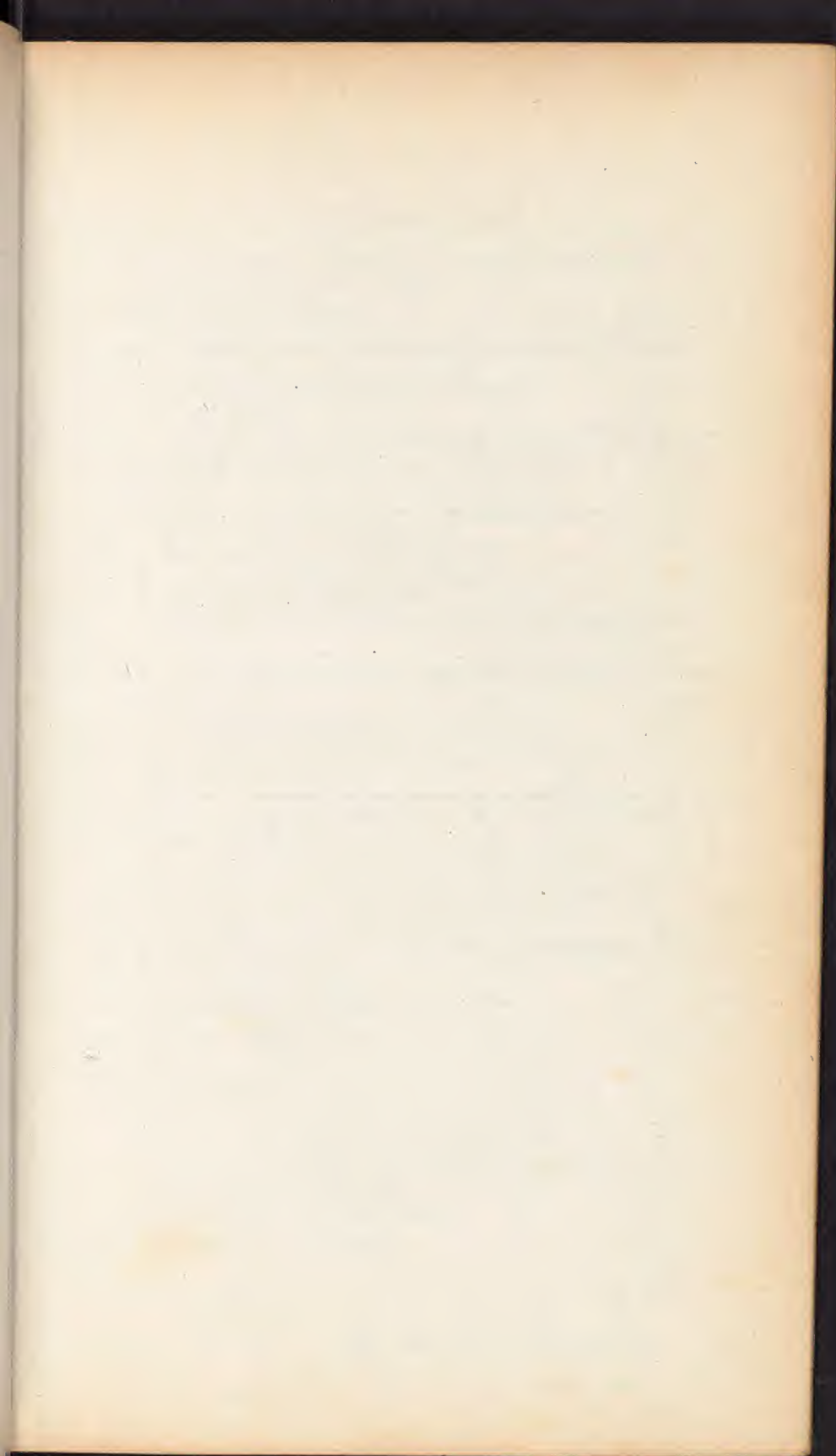
Make your conclusion according to circumstances of case, when the life in danger, when the bone is lost, take away immediately - avoid using chisel, the bone is full of blood, and put patient to bed and treat it as a broken bone



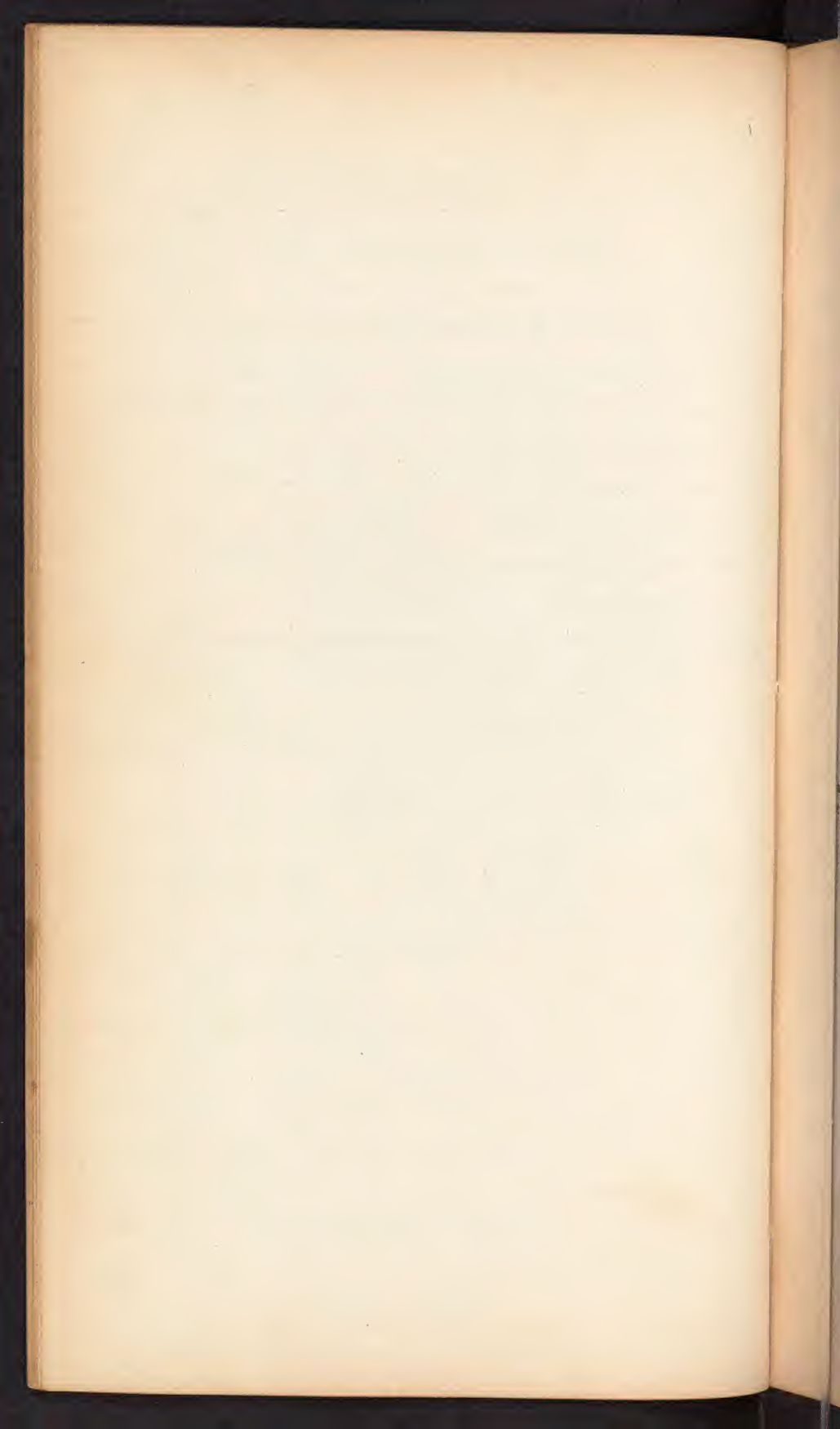












## XI. TUBERCLE IN BONE.

*Varieties.*—1. ENCYSTED TUBERCLE. 2. TUBERCULAR INFILTRATION.

*Characteristics of first form, or encysted tubercle.*

*Effects on surrounding parts.*

*Similarity between encysted tubercle in bone, and tubercle in other tissues.*—

In bone, as in the lungs, &c., the crude tubercle proceeds from the *semi-transparent gray granulation*, of Laennec and others.

*Process of reparation after softening of the tubercle.*

*Tubercular pouches.*

*Results of these collections.*—1. They may be absorbed. 2. They may cause suppuration and ulceration in the bone. 3. They may serve as the nidus of new tubercles.

*Stages in the development and maturation of encysted tubercle.*

1. Semi-transparent gray granulations.
2. Crude, opaque, encysted tubercle.
3. Bony excavation, loss of substance in the bone.
4. Evacuation of the tubercular cavity.
5. Hypertrophy of the cyst, obliteration of the cavity, recovery, (Nélaton.)

*Characteristics of second form, or tubercular infiltration.*—This may exist alone, or in connection with the other variety. It usually presents *two different conditions*.

1. *Semi-transparent infiltration.*
2. *Puriform or opaque infiltration.*

*Difference between the two.*

*Effects on surrounding parts.*—Invariably causes necrosis of the part attacked, and also produces purulent infiltration. It may also occasion tubercular cysts, caries, &c.

*Process of reparation after the bone is affected or destroyed.*

*Stages in the development and termination of this form of tubercle.*

1. Semi-transparent gray infiltration.
2. Interstitial hypertrophy of the bony tissue, or ivory degeneration.
3. Puriform infiltration.
4. Necrosis of the infiltrated portion.
5. Sequestration—foreign body—(Nélaton.)

*Diagnosis of tubercle in bone.*

*Prognosis.*

*Seat of the disease.*

*Persons most liable.*

*Diseases produced by these tubercular deposits.*

1. Certain forms of diseased spine
2. Certain forms of white swelling.
3. Certain diseases of the smaller joints.
4. Certain diseases of the inner ear.

## XII. OSSEOUS ANEURISM.

*Definition.**History.**Causes.**Location.**Persons most liable.**Symptoms.**Effects on adjacent parts.**Diagnosis.**Prognosis.**Dissection.**Treatment.*

## XIII. EXOSTOSIS, OR SIMPLE BONY TUMOURS.

*Definition.**Classification.*

1. Those which originate in the periosteum, or sub-periosteal cellular tissue, and may be termed *external periosteal*, or *peripheral*.

2. Those which originate in the substance of the bone, or in its cavity, and may be called *internal* or *parenchymatous*.

3. The *cartilaginous*.

4. The *ivory-like*

5. *General Exostosis* involving the entire bone.

6. *Partial Exostosis*, when the disease is confined to a portion of the bone.

*Mode of development of the periosteal tumours.*

*Mode of development of the parenchymatous tumours.*

*Liability.*—Some bones more frequently attacked than others.

*Number of tumours.*

*Size of tumour.*

*Color of tumour.*

*Form of tumour.*

*Causes of disease.*

*Symptoms.*—Vary with the cause, structure, and shape of tumour, its location, and the rapidity with which it grows.

*Effects on adjacent parts.*

*Diagnosis.*

*Prognosis.*

*Terminations.*—1. Resolution. 2. Conversion into other tissues. 3. Necrosis. 4. Suppuration.

*Treatment.*—1. Medical. 2. Surgical.

## XIV. HYDATID ENCYSTED TUMOUR OF BONE.

*Definition.**Causes.*

*Part of the bone most liable to be attacked.*

*Effect upon the bone.*

*Symptoms.**Diagnosis.**Prognosis.**Dissection.**Treatment.*



Alleged Anemia - a disease  
of bone duct and pulsating tumor  
pain begin and developed in  
spongy bone thru the main artery  
if fails to cure cut off the limb

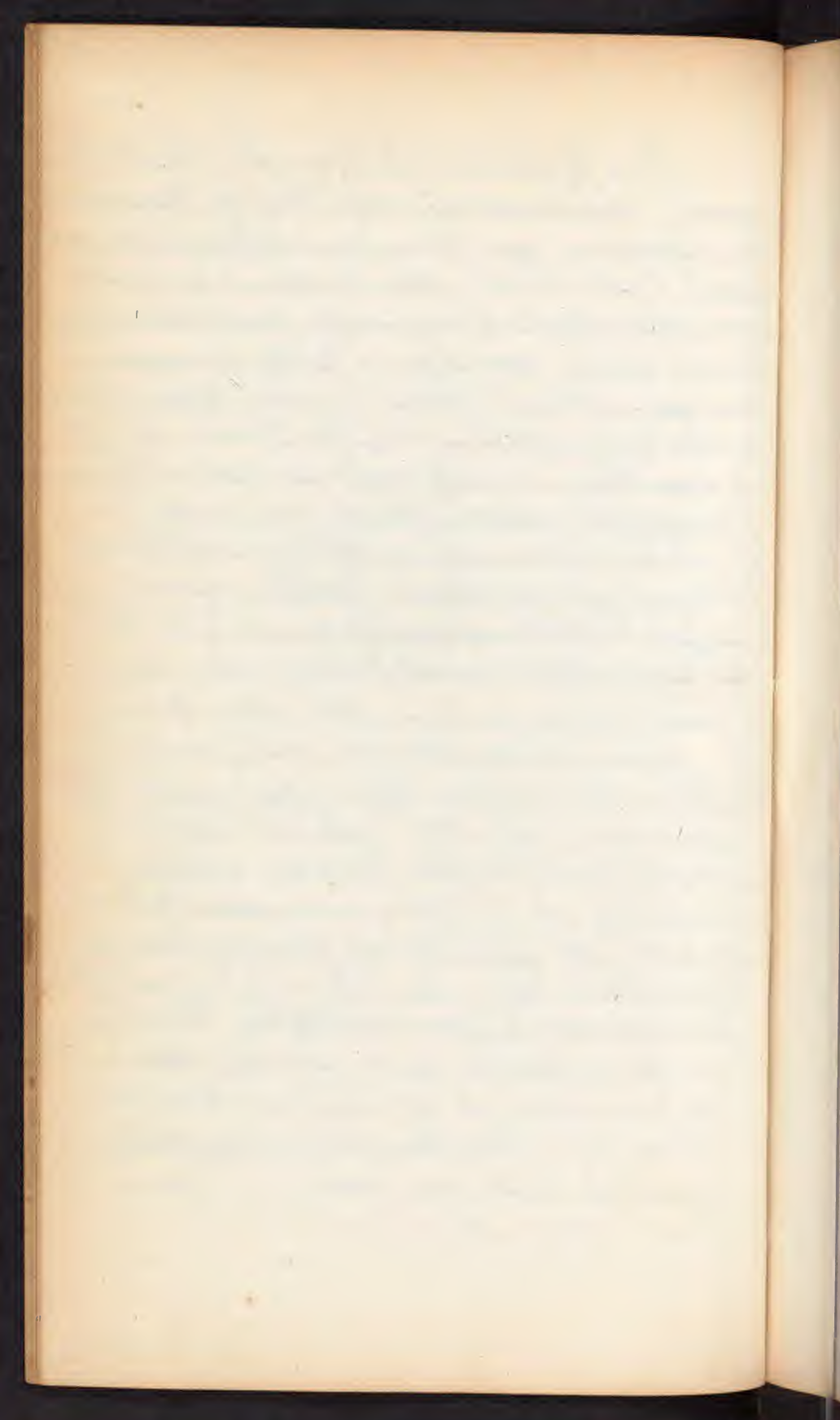
Osteosis - a simple bony  
tumor healthy. And it takes hold &  
move it about - 2nd may begin on  
out and grow out on outside and  
growing in - 13 - Is described as  
incontinua, perosteal tumor a tumor  
partaking of nature of cartilage and  
Bone 4. Peculiar osteosis of thoracic  
thick Bones - 5. described as the osteo-  
s - Hypertrophy of Bone 6. partial  
and which we have generally to  
cure, in person who has a constitutional  
tendency to this disease brought on by  
constitutional, or local. Begin on  
pericostum - 2nd only can be  
developed by chronic and acute  
osteitis, and bone becomes soft  
plasma thrown out and when  
the convalescent - plasma becomes  
bony - Bones face and Pelvis -  
Also number of tumors -  
no limit. to growth of these tumors  
Color importance - have black  
yellow but be mass -  
shape as Base of these  
tumors no way of away

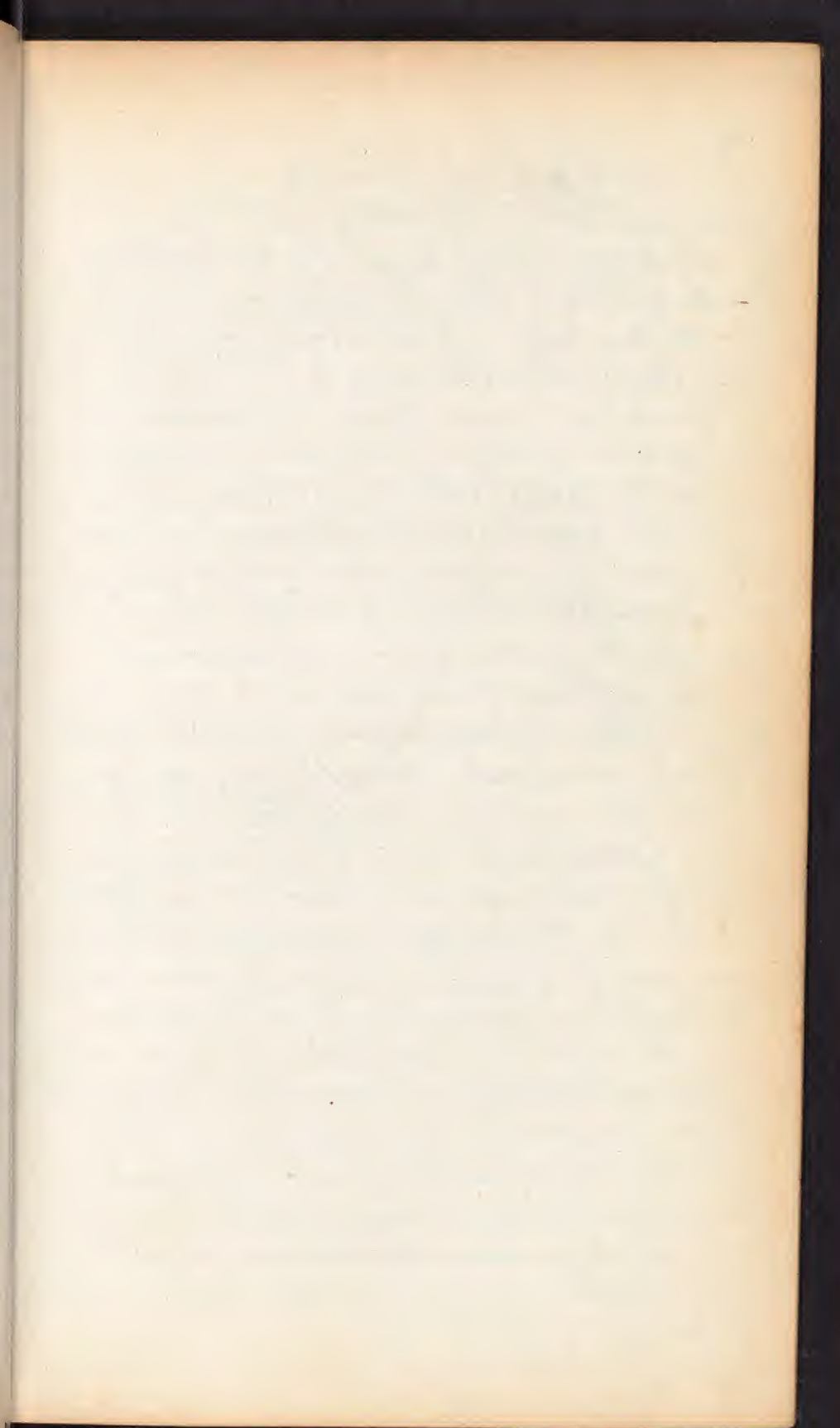
Symp - depend on cause &  
1st develop by inflam all Symp  
and disappear as case chronic -  
After no incan - tumor begins to  
grow serious - grows against skin  
as move when pooled ex trabs not  
painful giving rise no incan -  
these local phenomena while  
prognosis generally fav - place  
and cic will alter. Treat - ~~the~~  
Is it growing or station - if sta  
don't grow, no incan no pain  
let alone - ~~if~~ grows and can't  
limit - cut it away - take off  
depend on the place if simple  
tumor cut away the tumor or bring  
the flap - But if complicated this  
the oper cut off  $\frac{1}{3}$  apply the  
actual - cut off  $\frac{1}{3}$  base - If large  
tumor, shall cut off tumor or cut off  
limb if very extensive cut cut  
off cut off limb. If Perost a  
soft tumor, can cause  
the entire removal excite by  
inflammation and supp - and  
by ~~these~~ remedies & occlude &c



It is dated tumors so closely  
resembling Spines of ventose have  
one sac - in one in other several  
sacs distinct and converge in  
one fibrillar - around encysted  
the name ranvier-like through  
them. Must say looks like Spin  
and partially inflated & look  
of contain wind can't have Spines  
ventosa, without chronic infla  
of white tissue, inflates intere  
one, sometimes looks dark on  
side. often developed in Antro  
by having carious teeth. Why this  
tumor, first an opening tissue  
of Bone, hard membrane soft  
and secretes a very Maligant  
effusion, as bone expanded the  
osseous matter is thrown out (perfor  
smooth, or if rough indentation  
made by fluid if press it will  
crack. absence of pain. That  
punct and compress. Antro  
put a tooth or make an  
open side - if large tumor  
throw in stimulant by infect - if  
pus let out fluid and cure  
not Malignant -







## Osteo Sarcoma -

Take up some surgery and find  
laid down the dist. as very mal  
and Osteo - non malig - not  
so - Only diff as to stage - the  
one, the first (second & third  
in tumor we have fleshy matter  
and bony - may be due by local  
cause or Constitutional. Occur in  
families handed down from grand  
to grand - usually occurs in young  
group - observe small tumor  
begins to have pain, growing  
rancinating pain - put finger  
hard skin smooth - Strain color  
tongue forced bowels out of ord -  
and has grown rapidly  
soft spots and hard places -  
feel of obscure fluctuation 2nd  
stage - 3 Fungus masses throw  
up - and blood slightest grey  
and then becomes red green  
and white matter  
stimatodes, operantum cell  
line delicate mammillae cells  
filled up with certain fluid  
and varices - and bone only  
2nd Stage bone nearly all gone -  
look fresh like cheese like  
medullary matter.



XV. SEROUS ENCYSTED TUMOUR OF THE BONE.

*Definition.*

*Synonyms.*—Spina ventosa, fibro-cellular tumour, wind ball, &c.

*Causes.*

*Part of the bone most liable to be attacked.*

*Usual situation of the tumour.*

*Effect upon the bone.*

*Size.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*—Depends upon the size and location of the tumour, and the nature of its contents. Several general methods.

1. Puncturing or simply opening the tumour.
2. Puncture followed by seton.
3. Puncture followed by stimulating fluids.
4. Removal of the semi-solid contents of the tumour, and pressure.
5. Removal of the tumour, or amputation of the limb when it occurs on an extremity.

*Second Head.*

XVI. OSTEO-SARCOMA.

*Definition.*

*Causes.*—1. Constitutional. 2. Local.

*Bones most frequently attacked.*

*Age at which it generally occurs.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*—Removal. Amputate at a joint if possible.

XVII. MEDULLARY SARCOMA.

For the characteristics of this disease, see "Cancer."

XVIII. FIBROUS SARCOMA.

For the characteristics of this disease, see chapter on diseases of the "Fibrous Tissue."

XIX. FUNGUS HEMATODES.

For the characteristics of this disease, see "Cancer."

XX. MELANOSIS.

For the characteristics of this disease, see "Cancer."

## Third Head.

## XXI. WOUNDS OF BONE.

*Definition.**Causes.**Bones most usually involved.**Characteristics of wounds in bone.**Prognosis.**Diagnosis.**Process of union.**Treatment.*

## XXII. FRACTURES IN GENERAL.

*Definition.*

*Causes.*—1. Predisposing or remote. 2. Proximate or efficient. The first class may be subdivided into the *local* and *general*.

(1.) The local predisposing causes are—

- a. The situation of a bone.
- b. The function of a bone.
- c. Some local disease.

The general predisposing causes are—

- a. The diathesis of the individual.
- b. The disease of the individual.
- c. The age.
- d. The season of the year.
- e. Sex.

(2.) The efficient causes of fracture are—

- a. Muscular action.
- b. External violence, directly or indirectly applied.

*Bones most liable to fracture.* Refer to statistical tables.*Classification of fractures.*

The first division is based upon the relation of the solution of continuity to the axis of the bone. Thus we have—

- a. Transverse fracture.
- b. Oblique or obtuse fracture.
- c. Longitudinal or parallel fracture.

The second division is based upon the appearance of the fracture, which is always modified by the kind of force producing the injury, and the bone involved. Thus we have—

- a. Fissures.
- b. Stellated fracture.
- c. Depressed or indented fracture.

The third division is based upon the displacements of the fragments. Thus we have—

- a. Longitudinal displacement, or shortened fracture.
- b. Lateral displacement, or displacement in the diameter of the bone.
- c. Rotatory displacement, or displacement in the circumference of the bone.
- d. Angular displacement, or displacement in the direction of the bone.
- e. Impacted fracture.



if macerate 82 Stage we have  
made cells - prognosis unfavour-  
able have 1st stage cure by cutting  
out, if wait for second or third  
stage, or by amputate the joint  
no use to tamper, must  
take away page 12

Wounds - Solution cont -  
made by sharp inst rarely heal  
especially flat - push parts aside  
and dressing thin - Very liable to  
take an inflammation - Synovial  
fluid in bone and can come  
out more less later and contained  
by Prognosis - unfavour - danger  
of Erysip inflammation, if cut and  
fill with blood - coag - colour -  
absorb - and fibrin organizing  
and then becomes ossif - Study  
the form of Callus, if on flat  
bone union somewhat similar if seen  
taken out, clot of blood deposited  
and coag - on top of sculp don't  
touch it - if dust add, humor  
apply cold or warm dressing large  
part grad - fall off rest or pain  
int - flat - differ from long bones  
wound as soon as fibrin organ  
becomes organ in a membrane  
very dense - if by want to bone the  
the bone organ injured



accidentally goes on to cart but 'nude to  
bone. Local place in position without any  
sponge draw edges together, put limb  
splint, and look out for inflammation 9-out  
10 cases Ery - head - Clean - and  
if large put limb cold water  
and as often sponge away and  
then bring edges strap, and app  
limb and keep down inf -

Fract, upper from wound fibres Sep Cart  
in Fract simple solution of Contus -

A. Bones liable from displaced Sit  
B. Fract - Opt C - Some local as  
cancer. General pro O

a - Diarrhoe - Nature fail animal  
matter present - centre matter  
from bism. to dis - of ind - draw  
line between a & b - Sup - Lymph  
or Lymph - and thus bones more liable  
greatly affected by in matter in the  
bone - C, Ap. Animal matter  
decrease. A - Lymph of body  
always same, C - Female much  
less liable - Causes - Muscular  
Contract, Patella most liable - Every  
bone liable - B - Counter stroke  
transmission of shock it does slow  
a - Broken across, b. must be  
to manage, C - Rare must diff

to disting. gm produced by gm shot  
wound. 2nd div. A - 7th Ave  
from how a crack proceeding from it  
and by a red tender line (not less  
swelling - and sometimes effusion. &  
very difficult to manage. Radiated  
pect. - gm in flat sometimes thick  
C. - Dip. - Poor. Compress - and dist.  
double depress - Sup. - one edge  
pushed down on brain - double -  
harp. ledge forced down -

Displace -

- a. Bone short bone - by center
- b. mean cut ends have low frag slip  
to one side of other - rotation -  
displace in diam - and ulsely
- C. Produced by at limb rotating  
the frag upper diam station lower  
move - may have all combined
- d. gets back - partly dress if that  
one end bone make an angle  
if great can't be fixed
- e. the parts thrust into each  
other - draw the fibres apart  
overlooked giving rise to supp. chf  
as bone is pass - must report to  
other cases



Diagnosis - Bent bone no crepitus can straighten  
but when stop pressure will return to its original  
position again curve is regular may conform  
with various fracture curve other way - often  
confounded with partial fracture general in  
clavicle, the angle is acute but steady  
the arm and place bone in apposition with skin  
so - ~~no~~ no crepitus treatment same as in  
in complete confounded with sprain especially  
in ginglymoid character a peculiar sickiness  
comes over him - and no crepitus unless some  
times 24 hours after accident swelling uniform  
always treat doubtful cases as true fracture  
prox - eye larger more dangerous most common  
in those of femur except in chest - 6, where there  
is a great deal of musclicae fibre about them  
modified the prox with regard to deformity - 1 near  
a joint regarding joint as well as bone itself  
d. Relation of bone to cavity as in brain - of Idiosyncrasy  
from inflammation - e extent of injury of soft parts  
much more danger, where the limb is pulp  
worse even than compound fracture - always case  
where the bone is broken by direct force - 1  
direction of fracture as in oblique fracture  
generally have short limb, always watch patient  
daily - f the younger the more favorable the  
prognosis - g - health of patient as in syphilis  
lact or scrofula - here always treat the  
disease - Phosphate of Lime & Iod in scrofula  
and Mercury or Iod of Potass in  
h. In hot weather the inflammation causing red  
swelling and fever - i. Extrem involved - with  
moderately more fever in upper - l - more from  
the fracture more or less fever and sinus  
or abscess from reaction. hence be on guard



And hence Antiphlogistic is not have false joint  
And others - m - when bone is in place - must have  
to amputate - one sign - in comminuted fracture  
if no pulsation amputate if exist try to save  
m - attend to lay at first then treat fracture  
generally followed by stiffness -

Steps for operation - 2 kinds of union  
proximal and distal called, the former  
always taken up - when bone is broken 1st off  
union blood & serum & 24 hours after plasma  
change absorption of serum & coloring matter  
converting the whole into a pinkish mass - about  
3 day consistence common blood white of eye  
next at 5 day - soft parts and perivascular unite  
and the surrounding spot becomes vascular -  
and organ size 4 - this converted into cartilage  
when this is complete the cartilage begins to change  
in centre - when this becomes solidified the mass  
of compact structure becomes solid - making 6  
stage - 1st Blood - pink mass cartilage -

Then the middle becomes absorbed - the distinctive  
callus is the part remaining between the  
two ends of bone - requires from 2 months to a year  
modify by age sex - Sources of callus - blood  
necessary comes from - it not necessary to have  
periosteum - never saw off piece because it is  
gone, though it is the chief agent may get blood  
from bone itself lacerated soft parts and fat part  
provisional callus is always taken up - occasionally  
callus is left from want of power in absorb  
sometimes necessary to remove the callus by an  
operation - in flat bone union different  
rarely have in them anything but dense ligament  
occasionally have call specific union

Bones are sometimes weaker and sometimes  
stronger - generally as strong if fracture

recur through instructions for amputation - for the obvious reason that the arterial blood is cut off.

Local an principles - 1st careful how you movement, once cause his death move in horizontal position - 2 - setting sometimes very difficult - mechanical measures are of tendon Counter extension and coaptation - the ex and Counter ex must pull in line of displace and force equal and steady - coapt is the accurate adjustment of bone after the bone is set by the natural proneness or bone spasm of muscle which resist must overcome this but patient on either bleeding flume - and clothed in water around limb - In compound fracture, never cut off the end of limb for sometime if can't succeed saw - occasional the end of bone goes through belly of muscles if can't get out divide in Comp - but in simple fracture subcutaneous section -

3 - Indication - rest most important position Calculated to favor union Can Dages and Splints which in modern surgery have been much simplified only two kind Bandage for Strip Band the two strips overlapping each other used in compound fracture. & Rollers Splints vast majority made of wood never use pear wood, formerly were iron and steel hardly ever employed except to overcome muscular contract very good splint felt splint dipped in shallic gutta percha gradually used in fractures about the joint & saturated solution shallic and cloth dipped in it with in course of time become as hard as gutta percha, the splint is never to be applied between directly to skin but always a soft pad between two bran cushion mullins held in compress perforated always use this or with have stronging page 38



## Causes of displacement.

1. External violence, either direct or indirect.
2. Weight of the body in falling.
3. Weight of the limb.
4. Muscular contraction. Refer to Boyer's remarks on the influence of the different sets of muscles attached to the fragments. When the muscles are paralyzed by the blow, there is often no displacement of the fragments. Nor is displacement invariably present, even when the muscles retain their power. State the cause of this.

The fourth division is based upon the degree of injury done to the parts around the fracture, and to the bone itself. Thus we have—

- a. Simple fracture.
- b. Compound or open fracture.
- c. Complicated fracture.
- d. Comminuted fracture.

*Symptoms of fracture.*—1. Rational or physiological. 2. Sensible or physical. First or rational signs.

- a. Pain.
- b. Numbness.
- c. Loss of voluntary motion.
- d. Occasional constitutional disturbance.

These symptoms are never to be relied on, as they are present in other injuries. Second, or physical signs.

- a. Change in natural form of limb.
- b. Unnatural mobility of the part at the seat of fracture.
- c. Change in the length of the limb.
- d. Crepitus.

These symptoms are more to be relied on; yet it must be recollected that change in the natural form and length of a limb are present in luxations and sprains, and that crepitus may be occasioned by inspissation of the synovial fluid—the riding of one bone upon another in certain luxations—sanguineous tumours—the motion of tendons in their sheaths, and emphysematous collections. It may also be absent in fracture, or very indistinct. Lisfranc in such cases proposes the employment of the stethoscope in our examination.

*Diagnosis.*—Fractures may be confounded with—1. Luxations. 2. Bent bones. 3. Partial fracture. 4. Sprains. State the characteristics of each.

*Prognosis.*—Depends on a variety of circumstances. It is modified, for example, by—

- a. The size of the bone.
- b. The number of muscles attached to the fragments.
- c. The seat of fracture.
- d. The relation of the bone to one of the great cavities.
- e. The extent of injury to the soft parts.
- f. The character of the force producing the fracture.
- g. The direction of the fracture.
- h. The age of the patient.
- i. The health of the patient.
- j. The season of the year.
- k. The extremity involved.



- l. The existence of more than one fracture.
- m. The degree of injury to the bone broken.
- n. The existence of a luxation along with the fracture.

*The process of the reparation of fractures, or the formation of callus.*—Two kinds of callus.

- a. Provisional, or that which serves the purpose of uniting the fragments for a time, and is then removed.
- b. Definitive, or that which unites the fragments permanently.

There are several stages in the organization of callus which deserve attention. We have—

1. The effusion of blood and lymph.
2. The absorption of serum and the coloring matter of the blood, the inspersion of the lymph, and the union of the soft parts.
3. The conversion of the lymph into cartilage, which forms a distinct *pin* in the cavity of the bone, and a *ring* around the seat of fracture.
4. Ossification of the cartilage in the spongy tissue of the bone.
5. Ossification of the cartilage between the compact portion of the fragments.
6. The removal of the provisional callus, and the restoration of the cavity of the bone.

*Time required for the formation of definitive callus.*—Depends upon a variety of circumstances. Usually in adults, and in large bones, from eight to twelve months are requisite. The limb, however, is useful long before the process is completed.

*Agents concerned in the formation of callus.*

1. The periosteum. Not essential, though highly important in the formation of bone.
2. The vessels of the adjacent soft parts.
3. The bone itself.
4. The internal periosteum.
5. The absorbents which remove provisional callus and model the bone.

*Mode of union in flat bones.*

*Strength of bones after the fracture is cured.*—They are sometimes stronger, at others weaker than natural. The location of the fracture as regards the nutritious arteries, and the activity of absorption, are the modifying agents here.

*Treatment.*—General indications.

1. The mode of moving patients in severe fractures from the spot at which the injury occurred, is a matter well deserving the attention of the surgeon.

2 As there is usually displacement of the fragments, "*reduction*" or setting will be required. This may be effected by *extension*, *counter-extension*, *relaxation of the muscles*, and *coaptation*. We are often resisted in the accomplishment of this indication by *spasm of the muscles*, *binding of the soft parts*, and *binding of the bones*.—Mode of overcoming these difficulties explained. Value of mydiotomy in these cases discussed.

3. To prevent a recurrence of the displacements, *mechanical means must be applied*, and the part guarded against all motion. This indication is occasioned by the employment of *rest*, *favorable position*, *bandages*, *compresses*, *cushions*, and *various apparatus or dressings*.

4. As inflammatory symptoms may supervene, measures must be taken to prevent their occurrence.

## Causes -

a. External violence, attend  
to kind force. 2. weight of body  
bones not much hurt but fall dist  
fray. or R were stand - what dire  
d<sup>d</sup> fall - and part will depend  
on way fall. 3<sup>rd</sup> wt of limb, pay  
attent to poset of limb - 4<sup>th</sup> overcome  
the action of muscles and retain -

### 4<sup>th</sup> division part -

- a - injury to soft parts -
- b - open flesh
- c - injury large nerve or blood <sup>bad</sup>
- d - bones exposed & other

### 1<sup>st</sup> Ration

- a - More or less pain
- b - Numbness
- c - loss motion under and around  
not always some time - in fact  
fact - not lost

d - Man fever after

### Physical

- a. the part some bent - <sup>incre</sup> deam
- b, bend in any direct you chose  
pres -

c. Part short. d crep - by rubbing  
excite a sound - never forget  
may exist no fract any obs



may be confounded with. 1. 3 or 4 weeks  
in Lux joint near joint - Can't move  
bone any way - Crisp. in fact.

2. No true exist between bent bone  
and fracture. even say can be  
not so. only young bone bent  
truckle fibre of wood - seldom  
also sap - the 2 and 5 or 6  
can occur among any fibres  
and bone. if an in, don't Conf-  
but bone disease. Suppose

3. say 7, 8 or 14 instead bone bone  
or Snapp. Partial have  
don't break altogether. here there  
in and excess Animal mal-  
as complete cure occurs.

4. Middle age or old. Certainly  
apt to cut fracture. Acute  
from age. Kind. fracture. diff-  
but bone and partial may  
cure without Op - 2 no more  
pain and crisp when they  
the hand. one reg cure and  
second Acute any.

5. Especially if about joint.  
injury about joint can't be too  
cautious, treat very Specie  
joint. As a fracture, treat same  
for Sprain - take eye  
elbow - with



- look pale, falling out hand - thirsty  
hand - but no frost (char Sucklin  
in Sprain comes on gradually and  
comes on pain very peculiar - if  
~~comes~~ absence of creep - if Sprain  
no creep - horse move, first can  
move if Sprain not so in fact  
Pooz notes - a - large bone  
great difficulty, and great risk  
deformity. b. These muscles contract  
draw up lower fragment contract  
c. if in vicinity joint more injured  
d - fact of Corn danger pressure  
on bottom - little can repair  
fr. fragment driven down and  
contusion. only fracture direct up  
left part lower  
f - many cases almost up to  
Reap edges together. more elegant  
more inferior -  
h. the younger more prone  
i. if have Syphilis no union  
until Syphilis treated, some  
say pregnancy - prevent  
not so.  
j. much easier in winter don't  
have heat to suffer not  
any modifying influence Season  
k. much easier in wet  
by tendency to be lower

1. as from clavicle's near dif.  
M. of injury with other  
in luxation of br.

1<sup>st</sup> Effusion of blood - in  
cavity of Bone -

2. have seen Ring masses Cons  
of foiled white of egg - less  
coloring matter plasma  
based callus

3. cartilage soft nearly  
same nucleated Cell

4. red specks white Centre  
out side and in join  
shown in compact part  
bone out in not middle

5. distinctive Callus from common  
provisional Callus

Sometimes nature can't take up  
callus Brown in ring - some def  
aparts.

1<sup>st</sup> never cut off bone because  
no precastion. one chf as fault  
that bone goes along - into by  
pyro - cause only Effusion of  
bone organ can use in bone  
membran - sometimes lower use  
when the part in from center.

often stronger - as by union of  
two bones prior. ~~callus~~  
Call, Always such case with  
at 3 week whaton more

Hand  
1872  
this  
of  
plast  
prior  
center  
wrong  
part  
of the  
par  
8-  
only



Treat. Oper to make the bone unite without any deformity may occur however.

1st Keep bone at rest even in moving attend to it - may thrust bone through skin no fixation - hold bone. Slide a pad on - 2nd Extension Counter bc. force applied further from trunk, hand counter, near the trunk, force equal - further minor apply line disengage part run finger along - don't squeeze - adjust with great care, spasm, put leg down and give pat before giving him opiate or bleeding take care how bleed - some folks burn - pass history and dwell on with, have bones over-lap - only real slow give choice

Hand on the part with Bichloride of Mercury - 5-gr to oz - 4 - Tincture opium. In checking this given take care not to bleed - for fear of stopping plastic power of the blood. 5 - Spasm the best thing known is ether gas and opium is next best. If pain continues proof that something has been employed wrong - if pain is palatable and tolerable it is proof positive that something wrong, in dressing if the part left out to see and if it be cold, painful and cold take off dressing. 7. 8. Simulated mortification - nothing, and only from stasis of circulation - if the



pulsation goes on and aa is right Deep up  
the dressing, puncture them but be very careful  
not to take off the whole cuticle may have a  
ulcer - 9 If suppuration will come on must  
let it out can't help it - 10 - If a man with  
broken bone hardly ever wishes to use the  
limb, generally about 8 weeks wishes to get  
up - must support the part or will have  
secondary fracture, in some cases Specimens  
stimulates the absorbents so much that  
that the whole callus and limb broke again  
in such cases cannot do anything guard  
against them them - 11 - Tell the patient that  
he will have this stiffness or he will blame you  
use the proper measures to relieve it by stimu-  
-ting applications oleaginous lotions &c,  
passive motion - 12 - set except in Compound  
fracture - the inflammation and swelling  
not understanding - position not so important  
to the position in upper extremities as it is  
in lower - immovable apparatus - may  
do Celcus Trip - a roller bandage  
saturated with white of egg dissolved in  
alcohol used to envelope the whole  
limb - Starch and dextrine now usurps  
the place of white of egg, dextrine dries  
very rapidly - If determine to treat by the  
immovable appa take the splints put  
in warm water bandage limb fill up the  
inequality with cotton and put on splints  
wrap them down and thus make a box  
a bad method in consequence of swelling  
or producing mortification again band  
will get loose some propose to  
cut down and lighten. bandage  
the band and dress must be new

5. Spasm and pain often occur after dressing, and these symptoms must be relieved by anodynes, cold or warm irrigation, sometimes by changing the dressings, and occasionally by bloodletting. Be careful, however, not to deplete too much, as callus will not be formed unless a certain degree of excitement is allowed to take place in the seat of fracture. \*

6. In applying the dressings be careful to protect parts liable to pressure, or that seem chafed or swollen, by *straps, cushions, and proper position.*

7. Carefully inspect the dressings daily, but do not disturb them so long as they are steady and properly adjusted.

8. When phlyctenæ form, carefully puncture them with a needle, but do not allow the cuticle to be removed.

9. Should superficial or deep-seated suppuration ensue, it must be treated on principles already laid down.

10. During convalescence the patient requires strict attention in order to prevent the occurrence of "secondary fracture."

11. After callus is formed, the parts, especially the joints, remain rigid. The indication here is to relax this rigidity by *friction, passive motion, warm douche, vapour bath, electricity and galvanism.*

12. Finally, *set the fracture* as soon as possible. Do not wait, as some advise, until swelling and inflammation have occurred and subsided.

**B** *General methods of treatment :*

1. That in which the limb is kept extended in the *horizontal position.*  
 2. That in which it is maintained in the *semiflexed position.*  
 3. That in which it is encased in some *unyielding and permanent* dressing, as the "starch bandage," or plaster mould. This dressing is sometimes called the "*immovable apparatus.*"

4. That in which the limb is *suspended.* This method is technically called "*hyponarthecia.*" It originated with Sauter and Mayor.

5. That in which the dressing is composed of handkerchiefs, variously folded. This method, from having been introduced by Mayor, is called "*Mayor's handkerchief system.*"

6. That in which the ordinary splints and bandages are employed.

*Review of these different methods.*

#### COMPOUND FRACTURES.

*Definition.*

*Causes.*—1. The fragments of bone may be driven through the skin.

2. The integuments may be wounded by the body causing the fracture.

3. Sloughing may open the integuments.

4. An abscess may form and open.

5. Finally, pressure upon some projecting point may cause its ulceration.

*Dangers.*—1. Immediate shock to the system, from injury to the nerves, or from loss of blood.

2. Inflammation and fever.

3. Hectic fever.

4. Tetanus.

*Question of amputation.*—When called to a case of compound fracture, we are first to determine between the propriety of amputation, and an attempt to save the limb. No fixed rules in regard to this operation can be laid down, but we must take into consideration several points.



1. The age of the patient.
2. His constitution.
3. His habits.
4. His position in society.
5. His means of obtaining proper nursing, food, &c., during the treatment, if we attempt to save the leg.
6. The season of the year.
7. Atmospheric peculiarities.

*Circumstances supposed to warrant amputation.*

1. When the injury done to the soft parts and bones is such as to warrant the impression that gangrene will inevitably ensue.
2. Where, along with the fracture, a portion of the limb is torn off, as we see in wounds inflicted by machinery, cannon shot, &c.
3. Where the soft parts are extensively stripped off.
4. Where the fracture extends into a larger joint.
5. Where the bone is broken in several places, and the soft parts extensively injured.
6. Where the fracture is complicated with laceration of large bloodvessels and nerves.

Before resorting to amputation, even under these circumstances, weigh well its dangers.

*Time at which amputation should be performed.*—Difference of opinion among surgeons on this point; some preferring *immediate*, others *secondary* amputation. It would appear from the reports that in *civil* practice the latter method has been most successful, while in *military*, the former is most to be relied on. Many cases, however, admit of no delay, even in *civil* practice, and the surgeon must let experience determine the course to be pursued. Never operate until reaction to a certain degree has taken place.

*Treatment where it is determined to attempt the cure of the injury without amputation.*

1. *When the injury of the soft parts is comparatively slight.* Here we must close the wound at once by straps, the bandage, lint soaked in blood, or lint covered with oil-silk; apply splints, or the proper dressings, and treat the case like one of simple fracture.

2. *When the injury of the soft parts is more extensive, and the bones protrude and overlap, and cannot readily be reduced.* Here divide the soft parts, pick away any loose pieces of bone, and, if necessary, saw off the ends of the bone. Then apply a *loose* bandage of strips, place the limb on a pillow in a fracture box, or upon a carved splint, and use irrigation with cold water if the weather is warm; or, if the accident occur in winter, we may use the warm water dressing or a poultice. It is in this form, also, that the *bran* dressing of Dr. J. R. Barton is so useful. *Constitutional* symptoms are to be prescribed for.

3. When, in spite of all our efforts to prevent it, *profuse suppuration* takes place, we must give free vent to the pus, and support the constitution.

4. After the subsidence of *swelling, suppuration* and *severe pain*, treat the case like a simple fracture, with splints and bandages.

5. Where our remedies fail to relieve, and *mortification* sets in, we must amputate if possible.



2nd column page 38  
1. Moving.

2 Extension and counter extension always =  
muscular spasm - do not pull against  
when can't reduce in this way use ether  
Bleeding Lobacca and thus relax whole  
system. Binding of soft parts resort to every  
thing before using knife divide the band  
by subcutaneous section. Binding of  
bones - the wedging of fractured bones. Saw  
off the ~~by~~ end of bone and tell patient that  
limb will be shortened.

3rd Indication. To prevent recurrence  
of displacement. If constitutional  
disturb - if have fever don't bleed if can  
possibly avoid, as we thus remove the  
plasma, and even non union - reduce  
by neutral mixture, tart Ant, ferrug,  
Diet him - 5. Spasm & pain \* best  
thing is ether to relieve pain. or Opie  
until spasm is arrested - 100 drops of  
Laud. - simply altering position of muscles  
6. Intersperse cushions with band best  
if never disturb bandage so long as  
it holds and patient can bear it.

7. phlegmasia - leg or limb will be  
black and blue and areoles look  
at general condition. puncture  
and be careful not to tear off the  
cuticle, and apply arnica and  
water on limb

9. In sup- let out put as soon as can  
 10. Never let patient use limb too  
 much the calens being soft is  
 absorbed by stimulus. If you can  
 use him to protect splint 11.  
 perform passive motion at  
 first dressing bend all joints  
 when partial stiff hand back  
 12. get as soon as possible

B. 1. Inconvenient in fractures  
 of upper extremity 2. will not  
 apply always. But often is  
 indicated. 3. very old, very improper  
 except during convalescence 1 object  
 2, cant see and 2 - dont support  
 on acct of shrinking. 4. Suspended  
 nonsense. 5. So all fractures is promising  
 very good sometimes. 6. Only general  
 method is proper to employ

### Compound fract.

Difference between Comp fracture by ulcer  
 and one where made by inst or bone  
 as granulations follow the ulcer and  
 thus stops the access air 4. abscess,  
 the granulations are flabby and fail  
 to unite and thus give the worst  
 kind of Comp fract

Dangers - 1. shock on nervous  
 system and owing to size of  
 bone re - may die in Comp fract  
 of thigh from this alone



2. Form Inf. & Fever when pain  
is red and glairy fluid, and must  
use most active constitutionally  
run risk of non union of bone  
in order to keep down fever & keep  
from Imp Fract. - 3. Ectopic  
patient in great danger - can't  
remove it except by amputation  
nearly always - try dig them -  
and local Const. - Act. Ant. if  
can't do it out of limb -  
4. Tetanus, look for it early - in  
about 3 day - if wound won't  
heal and much air on it shock  
danger tetanus - Sym p - pain in  
epigastrium - spasm muscles on  
throat and convulsions, give  
Op.ii ad libitum -  
If touch joints with  
Op.ii usually save his life  
than begin with mercury  
99 out of hundred will die in  
spite of every thing - Again  
Secondary hemorrhage -  
don't tie up artery - but if  
possible for bleeding vessel  
pass ~~small~~ finger of full palm  
and open with knife and  
tie up - if this can't be done  
use styptics and compression  
lint in powdered resin and  
tied on with bandage - If all  
fail must tie up main art  
but if more comes on



amp as soon as possible. Exp-  
question asked by Doct in these  
fact - Amp - Guest - 1st age  
young recover better than old -  
if child young man, healthy  
adult - there great prob of saving  
if 40 Generally better to amp  
2 - If have syphilis - scrofula  
sleekly constitution, must run  
risk of. 3. If sedentary system  
drunkard - with generally dis-  
must cut off limb is his best  
change - 4th. If can obtain attent-  
try save limb - better to amp -  
6. If sun hot - and lower part  
serious comp - and if have other  
things - Against him better to cut off  
pus guy - Percum wanting  
amp - where have every one  
fear in Comp fact of high  
endeavor to save limb - but guard  
prog - for 99 ch against - having  
decided to amp when take  
best to do it as soon as the  
reaction has come on - give  
stimulant cheerful conversation  
etc - when pulse gets up - the  
operate. give Anesthetic - in ap-  
If Endeavor to save limb  
ptd and - convert Amp. in Sump  
fact - Close wound - put lint  
over wound and paint over  
with Collodion -

2 ways of dressing a fracture -  
place limb on prop. position.  
Int. - Camp part of ext. - Comm.  
box sides let out put a pillow  
on cover with oiled silk and  
putting leg on top up by sides  
and tie foot to foot board and  
support heel (for clune box &  
pillow) to stop inflammation keep  
wet - limb dont let fever  
come on - If camp with swelling  
after ~~rest~~ dressing use band of  
strips used only when swelling  
and in camp fracture. Another  
is from dressing Rag Band  
here cover up with foam and  
wedge it in, also catches the  
fluids and the swelling with  
compress - the limb. In course  
of ten days to remove band - dont  
touch limb - have 2 assist steady  
of limb, gradually move limb  
from front one side and interspersing  
clean - then on other side. When  
wound close swelling goes down the  
bones ~~don't unite~~ change  
dressing - and change of  
limb - will obviate bed sores -  
Mortification does set in and  
off invariably.



## Irregular Callus

Causes - giving unite with deformity -  
Sometimes bent sometimes Complicated  
Before answer question.

1<sup>st</sup> in most of injury the Decent Can  
Remedy - longer time - more imperfect  
2<sup>nd</sup> I can use limb without pain  
let alone - unless recent, if pain  
of limb be dist or destroyed or  
to perform the oper, resection when  
excised sometimes.

3<sup>rd</sup> Be cautious in bone if thigh  
but if humerus fair Prognosis

4. Longer more impair

5. Age young better

6. If function body destroyed,  
don't touch him till get body  
in good condition

7. In summer, heat gives  
great uneasiness

8. Suppose bone has disease or can  
let bone wait till bone sound

Means how remove

1<sup>st</sup> depends of the duration

of injury - Can cure case

readily, always in 6<sup>th</sup> weeks

Don't resect until try compound - put  
in box to suit case.

2<sup>nd</sup> Some let on instead of breaking  
will excite deposit - never use it

3<sup>rd</sup> Rupture, attempt where both  
bones are joint twisted only in one



*Character of the callus in compound fracture and the agents employed in its formation.*

#### COMPLICATED FRACTURE.

##### *Definition.*

*Causes.*—The fragments may be thrust through large vessels, or nerves, or into joints: or the force producing the fracture may cause their injury, or occasion luxation.

*Dangers.*—1. Immediate shock to the system from loss of blood, or injury of the nerves. 2. Sloughing from infiltration of blood and serum. 3. Mortification from loss of nervous influence. 4. Permanent paralysis of the limb. 5. Phlebitis. 6. Hectic fever. 7. Tetanus.

*Question of amputation.*—No general rules can be laid down, but the circumstances already stated as modifying our treatment of compound fracture, should always be taken into consideration here.

*Treatment.*—Varies with the complication.

1. Where we have profuse hemorrhage from a wounded vein. Bleed, apply cold, and pressure, and afterwards frictions and pressure, to cause the absorption of the blood; occasionally a ligature will be required. Be careful to prevent phlebitis.

2. When we have hemorrhage from a large artery, characterized, where there is no external wound, by a tumour pulsating at first, apply a ligature *above* the tumour, and do not as a general rule open the integuments and seek for the artery as advised by Boyer. When the collection of blood is so great as to threaten sloughing, then open the tumour, evacuate the blood and tie the vessels. When a wound in the integument exists, we may sometimes dilate it, and thus tie the artery above and below.

3. When a large nerve is torn across, which is manifested by paralysis, numbness, pain and spasm of the limb, we must bleed, place the part at rest, apply leeches, cold or hot applications, and give anodynes.

4. In comminuted fracture, complicated with a wound in the integuments. We must take away splinters, *provided* they are not attached to the soft parts. Close the wound and treat it like a bad compound fracture. When the bone is crushed to pieces, it will generally be proper to amputate.

5. When a luxation complicates the fracture, always protect the fracture by some firm dressings, then reduce the luxation as speedily as possible, and afterwards set the fracture and treat it according to the rules laid down.

6. When the fracture extends into a joint, we have to fear intense inflammation, and must treat the case accordingly.

7. When mortification takes place amputate.

8. When tetanus supervenes treat it in the usual manner.

#### IRREGULAR CALLUS, OR FRACTURE UNITING WITH DEFORMITY.

*Causes.*—Usually, neglect or bad treatment of the case, or the wilfulness of the patient, are the immediate causes of deformity.

*Question of the propriety of interference in these cases.*—Many points must be considered before the operation is undertaken.

1. The duration of the injury.

2. The degree of functional injury resulting from the deformity.

3. The practicability of relieving the deformity without endangering the life of the patient.

4. The size and location of the injury.

5. The age of the patient.

6. The health of the patient.

7. The season of the year.

8. The existence or not of disease of the soft parts or of the bone itself.

*Means employed to remove the deformity.*—These vary with the duration of the injury.

1. *Pressure and extension of the limb.*—When called to a badly set fracture, within the first sixty days after its occurrence, or while the callus is yet yielding, we may often succeed in restoring the limb by well regulated *pressure and extension of the limb*. Cases are reported by Dupuytren and others, in which these measures have succeeded even after the lapse of the 120th day from the receipt of the injury.

2. *The seton.*—In these cases Wienhold proposes the introduction of a *seton*, which by causing suppuration would break down the callus.

3. *Rupture of the callus.*—If more than sixty or seventy days have elapsed before we are called, as a *general rule* rupture of the callus will prove more useful than any attempts to mould it into proper shape. This is an old operation, and has been recently revived by Cæsterlen, Richerand, Dupuytren and others.

1 *Cases to which it is applicable.*

2 *Dangers of this operation.*

3 *Preparation of the patient.*

4 *Mode of rupturing the callus.*

5 *After treatment.*

4. *Resection of Bone.*—In cases of long standing, where the bones overlap, and are firmly bound to each other, *pressure*, the *seton*, and *refracture*, will all fail to afford relief, and we must then resort to "*resection of the bones.*"

*Dangers of this operation.*

*Preparation of the patient.*

*Mode of performing the operation.*

*After treatment.*

5. *Removal of exuberant callus.*—When spiculæ or ledges of bone are thrown out around the seat of fracture, and interfere with the motion of its parts, or occasion pain, we may, after waiting a few months for the efforts of nature, cut down upon them and remove them with the knife or saw. (See cases of this deformity reported by Alcock, Velpeau, Dawson, and myself.)

#### PSEUDARTHROSIS, FALSE-JOINT, OR NON-UNION.

*Definition.*

*Frequency of the defect.*

*Varieties.*—1. Where the fragments are united by *soft callus*. 2. Where the fragments are united by a *ligamentous band* or *bands*. 3. Where the fragments are united by *cellular tissue* alone. 4. Where a *sort of joint* is established. The bones being rounded off, tipped with cartilage, covered by a synovial membrane, and held together by a capsular ligament. Very rare.

*Causes.*—1. Constitutional. 2. Local.



*First, or constitutional.*

- a. Syphilis.
- b. Pregnancy and suckling.
- c. Fevers of different kinds.
- d. Cancer.
- e. Fragilitas ossium.
- f. Scurvy.
- g. General impoverishment of the system.
- h. Paralysis.
- i. Deficient supply of arterial blood.
- j. Advanced age.

*Second, or local.*

- a. Frequent motion of the fragments.
- b. Separation of the fragments.
- c. Disease of the fragments.
- d. Interposition of foreign bodies between the fragments.
- e. Tight bandaging.
- f. The long continued use of cooling applications.
- g. The too early use of a fractured limb.
- h. Division or stripping off of the periosteum.
- i. Want of cellular tissue.

*Symptoms.**Diagnosis.**Prognosis.**Object of treatment.*

*Treatment.*—Various methods have been introduced.

1. Simply keeping the parts in splints for several months.
2. Friction.
3. Compression.
4. The application of caustic alkali to the integuments over the seat of fracture.
5. The introduction of a heated canula between the bones. Proposed by Mayor.
6. The seton—proposed by Dr. Physick. Modification of this agent by Rhynd.
7. Escharotics applied to the ends of the bones.
8. Removal of the extremities of the fragments.
9. Section of ligamentous union.
10. Section of muscles attached to the fragments, coaptation, and friction or pressure. Proposed by Dieffenbach, in false joint of the olecranon, patella, &c.
11. Acupuncture.
12. Electricity.
13. Blisters.
14. The use of iodine or mercury.
15. The metallic ligature of Sommé.
16. The actual cautery. Employed by Kirkbride and others.
17. The introduction of ivory pegs.—(Dieffenbach.)

## DIASTASIS OR SEPARATION OF EPIPHYSES.

*Definition.*

*Age at which the accident occurs.*—Varies in different individuals. May take place at any age previous to that at which the epiphyses become attached by bone. This generally occurs before puberty.



*Causes.*—Violence or muscular contraction.

*Symptoms.*—Obscure. Unnatural mobility at the seat of the epiphysis is the most important sign.

*Diagnosis.*—May be confounded with *fracture* or *luxation*.

*Prognosis.*—The injury, if properly managed, rarely results in deformity; if neglected, the person is almost sure to be crippled.

*Treatment.*—Depends of course on the seat of the lesion. The general indications are nearly the same with those laid down for our guidance in the treatment of fracture.

## PARTICULAR FRACTURES.

### I. NASAL BONES.

*Liability.*

*Causes.*

*Varieties.*

*Complications.*—Concussion of brain; emphysema; injury of lachrymal duct and canal; fracture of cribriform plate; inflammation, and caries or necrosis of the bone.

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

### II. MALAR BONES.

Page 132

*a* *Liability.*—This accident is very rare.

*b* *Causes.*

*c* *Varieties.*

*d* *Complications.*

*e* *Symptoms.*

*f* *Diagnosis.*

*g* *Prognosis.*

*h* *Treatment.*

### III. SUPERIOR MAXILLARY BONES.

*Liability.*

*Causes.*

*Varieties.*

*Complications.*

*Diagnosis.*

*Prognosis.*

*Symptoms.*

*Treatment.*

#### IV. INFERIOR MAXILLARY.

*Liability.*

*Causes.*

*Parts most liable to fracture.*

*Varieties.*

*Complications.*

*Symptoms of each of the fractures of this bone.*

*Diagnosis.*

*Prognosis.*

*Treatment.*—Depends on the seat of fracture.

#### V. OS HYOIDES.

*Liability.*

*Causes.*

*Varieties.*

*Complications.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

#### VI. THYROID CARTILAGE.

*Liability.*

*Causes.*

*Varieties.*

*Complications.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

#### VII. STERNUM

*Liability.*

*Causes.*

*Varieties.*

*Complications.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

#### VIII. RIBS.

*Liability.*

*Ribs most frequently broken.*

*Parts of the bone most liable to fracture.*

*Causes.*—External violence. Muscular contraction, as in coughing.

*Varieties.*

*Complications.*—Hemoptysis, emphysema, pleuritis, empyema.

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

## IX. CLAVICLE.

*Liability.*—Its shape, size, texture, exposed situation, and function, render this bone liable to fracture. *incompletely*

*Parts usually broken.*

*Causes.*—Direct or indirect violence.

*Varieties.*—Complete, incomplete, simple, &c.

*Complications.*—Paralysis of arm, injury of axillary plexus and vessels. (Earle.)

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*—Various dressings employed to carry out the three indications of Desault. 1. Desault's bandage. 2. Boyer's bandage. 3. Mayor's bandkerchiefs. 4. Fox's Apparatus. 5. Brown's bandage. 6. Dr. Reynell Coates' bandage. 7. Hiester's dressing. 8. Sir A. Cooper's.

## X. SCAPULA.

*Liability*—Its site and mobility protect it in a great measure from fracture.

*Parts most liable to fracture*—1. Acromion process. 2. Inferior angle. 3. Body of the bone. 4. The coracoid process. 5. The spine. 6. The neck.

*Causes.*

*Varieties.*

*Complications.*

*Symptoms.*—Depend on part broken.

*Diagnosis.*—Depends on part broken.

*Prognosis.*—Depends on part broken.

*Treatment.*—Varies with the seat of injury.

## XI. HUMERUS.

*Liability.*—According to Longsdale, fractures of this bone are proportionately less frequent than is usually supposed—about one-sixteenth of all fractures.

*Ages at which it usually occurs.*—Childhood and old age.

*Parts of the bone liable to fracture.*—1. The head. 2. The anatomical neck. 3. The surgical neck. 4. The epiphysis. 5. The shaft. 6. The condyles.

*Causes.*—Muscular contraction, direct and indirect violence.

*Varieties.*



and more clasp either reset or break  
again. and setting top - If healthy  
good - break - If make any prob  
use assumption. Take fore arm  
and draw over knee never do  
it. after 4 or 5 months. in old cases  
must reset - Oper of reset  
dis - If Cart - an edis always cut off  
the top:

5 - Sometimes give us a cystic  
tumor, every some give small int  
pain - Oper saw rasp or clip not  
false joint

Sig. 1<sup>st</sup> begins as blood and cartilage  
into cart ossification joint, patient  
are very - perfect folly to endeavor  
to cure. 2<sup>nd</sup> In patella as a thin

layer or lig - Joint injured and  
crippled. 4<sup>th</sup> See in old people  
blood thrown out not can reset -  
only in cellular tissue

4. Bone resting one other, whole  
resumed system establish  
top cart, and head formed  
and lower mounted cups  
Lymph - very plain no voluntary  
power but great mobility this case  
where cellular tissue - Ball socket  
motion reset - and with in larger  
in lig no cart -

Prognosis - Don't be too certain - a false  
joint anywhere most tedious unless the  
patient will submit to treatment

Treatment - all methods intended to  
excite a new action and throw out plasma  
mold over in this way.

1<sup>st</sup> red gods be imposed - perfect  
but nearly always cure if case recent  
2<sup>nd</sup> after having Rps don't get hard  
and stiff. take hold upon frag and  
rib. reason -

3. don't want tight lateral, want  
compressed squeezing in bone  
excite, only recent can be all way  
by these when the part use some  
bone lay open and use caustic  
at confidence - see. another a  
thickened canula, with kill the part  
& Bist the sealer, introduced by  
long needle pass take between and  
bone - Can't do it in Ball & Scap  
Chin in collar - must imp. long  
wire pass don't take out, until parts  
get hard, all give great credit.

7. Turn out ends one cut off and  
touch both each - sometimes pulled

8. if limb useless limb do it  
if can get along case don't  
let be sometimes part

Pass over some

17. In in Bone fragments body given  
dive called - lay open part a  
hole put in plug of Jony - and take  
the rays with wire - Bone always



Proceed -

Heart is frequent comp - with face  
nasal bones -

Always force directly upward  
imp - because always nearly causes  
displacement - sometimes with not  
fracture, arch only on side - no  
diff if called immediately -  
on acc of swelling - and filled  
from air in cellular tissue - felt  
along bridge of nose - have pain  
numor and great swelling -

Comp - being - If fract made mainp  
in acute short time become comatose  
have all symp - of fract compression -  
of brain by the Crista Galli - often  
stunned - may happen without  
any very serious, always immediately  
complicate diagnosis - great swelling  
prominent crackles under pressure  
indicates, Schneiderian Membrane  
torn across - often have fragment  
driven ~~under~~ into ductum and  
Nasi - purpura - is how very unfair  
Sometimes Caries and Necrosis  
will come only one thing often  
occurs and mistake for fract  
the displacement of cartilage  
Fract - simple without any  
comp - air now place plug  
into each nostril to stop  
bleeding when necessary



cease take away - if Klistone  
killed him - Suppose pay ment  
down down - put quite up  
and gently wd just thru by  
push out side - local anti sh  
sup broken in to pay - of bones  
detached from pericostum, if  
not let them alone - put in very  
elevate, sup have emphysema -  
take battery and puncture  
the tumor in some place where  
can't be seen

Malar bone -

very rare. Only occur direct force  
of simple not much swell  
feel - If great have bone  
centre of cheek dragged down  
by sharp force - but common band  
band - in Comp - put finger  
and thumb, and push in below  
till by continuity by of orbit  
Super Max

Sometimes seen on inferior  
portion - and can be torn open  
or by button or cane - pass  
fig between cheek bone - way  
of dental arch - if no  
displace put on band - if  
Comp - push jaw up - and  
keep lower jaw - if no  
tissue put cork into very

if an inflamed Anti phlog  
such bone if teeth be loose don't  
pull out espce - if membrane  
furo be not torn.

Infer max - very different  
may be frac different type and  
ang - in cor and cer - and  
in young sub in sym -

If have mult fracture - in two  
places. between ang and ramus  
and on each side sym.

Sym displaced - pain hammer  
and ureg by arch with great  
secretion of fract. seat by  
simple fracture, occur  
between sym and angle

1<sup>st</sup> look kind of fract over com  
action of muscles - or have depre-  
ment push up lower and let  
units - either with simple roller  
or quart bar - may have  
should - mould to fit should  
go to assist for dent use  
brackets make cup -

put a piece of cork if teeth  
dip & if lower push down  
to let teeth

2 - Suppase Comp - fract - Sub  
ramus and base - must have  
a perp splint - by some way  
go up to zygomatic



Condyle

3 - ~~Lower~~ if open mouth stick  
stick - in front ear have a process  
bone - and up - pass ~~across~~ up  
and low station. pain soon and  
no creep - must act on lower  
push jaw forwards and later  
put behind pass a firm compact  
behind and hold lower free y  
4 - Crowned no displac - turn  
if temp miss - keep rest and  
apply double sling -

5 - Set at Symphysis take a  
strip of adhesive plaster  
and pull from angle forward  
and double sling -

If hemorrhage, just as soon  
as put fragment together  
hemorrhage will cease  
unless have compound  
Comp - if open and set at  
place - and just as well as  
possible - don't take away  
the unless absolute necessity -  
and very careful till the teeth



HEAD OF HUMERUS.

*Liability.*  
*Causes.*  
*Variety.*  
*Signs.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

ANATOMICAL NECK.

*Liability.*  
*Causes.*  
*Variety.*  
*Signs.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

SURGICAL NECK.

*Liability.*  
*Causes.*  
*Variety.*  
*Signs.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

SEPARATION OF THE EPIPHYSES.

*Liability.*  
*Causes.*  
*Variety.*  
*Signs.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

SHAFT ABOVE INSERTION OF DELTOID.

*Liability.*  
*Causes.*  
*Variety.*  
*Signs.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

SHAFT AT ITS MIDDLE.

*Liability.*  
*Causes.*  
*Variety.*  
*Signs.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

SHAFT ABOVE CONDYLES.

*Liability.*  
*Causes.*  
*Variety.*  
*Signs.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

CONDYLES.

*Liability.*  
*Causes.*  
*Variety.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

XII. BONES OF THE FORE-ARM.

*Liability.*—More frequently broken than the humerus—one-fifth of all fractures.

*Bones involved.*—One or both may be broken. The radius is most liable, from its connexion with the wrist.

*Causes.*  
*Varieties.*

BOTH BONES.

*Parts generally broken.*  
*Causes.*  
*Variety.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

FRACTURE OF RADIUS ALONE.

*Liability.*—Very common.  
*Causes.*  
*Variety.*  
*Parts usually broken.*—Head, neck, shaft, or inferior extremity.  
*Symptoms of each.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

Thyroid - is almost a cart in  
young but finally becomes - hard  
is a man sized throat - many  
recursion - Suppoc - great danger  
sucking in -  
Sympt - obvious - after Choke  
agon - pain - almost suff  
Great - recognition - if suff - pass  
your finger to root tongue draw  
the base tongue bring frag  
in later - danger of acute inf  
edema - generally comes on  
if can't bring frag back take  
a tracheal tube - and insert in  
integ - and bring frag out  
if no pain let be. Use  
great ante

Thyroid - in young  
never broken, often in old age  
inflam set in almost in  
throat by acute phleg - and (mod)  
put in hook if don't model  
with finger - open cartilage  
if suff.

Sternum - not  
very liable - Not has been broken  
by direct or by nose  
Sometimes driven down to  
interfere with action heart  
no diff - any in recognition  
where be it - more obscure  
if compress with quilt -



tried upon on kind of obliqu  
or transverse kind by touch as  
right as can be as - apt  
to take on inflam. as soon  
as dress prevent by influn  
of pain opic - If we  
have also dispeac -  
let it. Sometimes make  
deep indur - and then  
press down low force -  
and when sup bring in  
the other. If cant set  
and patient can breathe  
well let alone - if water  
with heart set by plding  
with tinaculas, if cant  
succeed - cut down and  
med - and pry out bone  
as broad as hand and ant.

Rubs depend on  
kind force, at ext dist  
out if in mid. displace  
\* from acute laceration  
crip. Cough if lung lacerated  
bloody expectorations. In  
but perhaps cant distinguish  
crip. Conf - by musc mass  
that same. Runt looks  
dis - of frag in lym  
of bone. Where on an crushed  
by a weight falling on him  
if dis inward a pit - all  
went made to look at

Croup - lung also wound - if  
an hour - find pulled up  
emphysema - increased  
diff of case - great bleed  
of lung wound - and spicula  
bone - recog by Rind disk and  
amount of hem -

Poor - I am sometimes -  
Laceration of int cost & artery -  
Simple - if crop band put tight  
round chest - purge - was diet  
opiate to stop cough - Anti -  
Sub cut emph bone drawn  
bleed - bring - press - make  
patient sleep better. Stop the  
hemor - and stop - give  
dig - opium - if can't get  
bone this way - take tin  
and draw out as far from  
seat of fract as possible -  
if have Emphy - pump in  
skin and press out air  
won't occur with - the scroff  
is run into - act - when  
simple - treat blood - opium  
dig - if comp fract - don't  
allow hem - compresses out  
take soft linen take, shove  
it in chest to make punch  
pass in cloth and pull out  
now get pull out cotton.



new dress, Simp and  
if disp - out put on a  
compress Corn of Simp  
and inf that second -  
sign in consump put  
two twice past board and  
Soft - place it over and  
Round - put it on with the  
trunk fully open in open  
- Clavicle -

Soon si. - in very liable  
Cand direct or ind - if direct  
have frag down down - when  
indirect simple part - pro  
in Rind - if direct numb, an  
but and give no swelling may  
have - par - if sim more  
of Compli - Prop - is par  
In par as defor inf -  
No app - in vent - if care  
may - always success -  
one the only, may occur  
deformity. Sternal don't  
move when drag down  
weight arm - as disc  
that - pec - and Car  
Arms arm in. Slight  
Cant up ward - by work  
Scap - Treat only 3  
not - disant



Shave above delt muscle  
higher up the up pass - put in  
your the, partial kind displays  
put the angular splint base  
down - and roller band from  
hand up - (See Eys physics  
up to 10 or 12 - no diff. in  
a very differ. deformity - very  
diff. diagnoses - force direct  
sym. at no short - carried out  
and back slight. Just below  
acrom. process a round smooth  
tumor - no crepitation, a creaking  
sound - Just below acromion  
a depression -

Prognosis - sometimes favor-  
ably have to faint - treat by  
the same splint over  
able to be in partial relief  
always treat above, as far  
of tubercle sometimes torn off  
acute 1st an incres. in caps  
breadth of shoulder - does  
not allow motion, if prop-  
ly done - can't move it  
self. If pass finger up  
come on a protuberant  
tumor above traps must all  
over skin break  
Shave middle usual  
mark. Annot. about shoulder

International Morse Cryptos, Treat  
as a fracture of Neck - Will  
to paralyze - muscles use  
an splin - May in 2 or 3  
weeks substitute a rounded Spl

Shaft above Cond

from short - along lower ext  
pushed down before and behind  
laminiform lux - Put patients  
in chair, and put arm across  
knee and bend after making  
ext and count - when wrist bone  
now have crop - Treat use  
2 ang - Splint and one bend  
in front Rub - 3 week put off in  
fine arm short - begins with  
passive motion at 5th week straight

Condyles

May be on one side or through center  
from direct app - Sometimes 2 or 3  
Ring of Dyer - a prominent pad  
and deep for prominence - Treat Ext  
and counter Ext pull away Elec press  
and apply ~~later~~ later, be fine when  
at head apply to shoulder and lay  
hand flat take two ang splin put  
upon where press is made - Repeat  
the week Commence ang splint  
and get arm straight 6 weeks  
go back again begin to be  
well straight

FRACTURE OF ULNA ALONE.

*Liability.*

*Causes.*

*Variety.*

*Parts usually broken.*—Shaft, extremities, coronoid process, olecranon process.

*Signs of each.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

XIII. CARPAL BONES.

*Liability.*

*Causes.*

*Varieties.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

XIV. METACARPAL BONES.

*Liability.*

*Causes.*

*Varieties.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

XV. PHALANGEAL BONES.

*Liability.*

*Causes.*

*Varieties.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

XVI. SACRUM.

*Liability.*

*Causes.*

*Varieties.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*



XVII. OS COCCYGIS.

*Liability.*  
*Causes.*  
*Varieties.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

XVIII. OS INNOMINATUM.

*Liability.*  
*Causes.*  
*Situation of fracture.*  
*Varieties.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

XIX. FEMUR.

*Importance of the fractures of this bone.*  
*Liability.*  
*Causes.*  
*Varieties.*  
*Parts usually broken.*—Head, neck, trochanters, shaft, and condyles.

FRACTURE OF THE HEAD.

*Liability.*  
*Causes.*  
*Varieties.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

FRACTURE OF THE CERVIX WITHIN THE CAPSULAR LIGAMENT.

*Liability.*  
*Causes.*  
*Age most liable.*  
*Sex most liable.*  
*Varieties.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

Torax - either by direct or  
muscula one more handle Radius  
both may be broken in one plane  
or diff - In all complete cases  
no diff - in diag - if in diff  
plane not easy diagnosis  
pass finger and inches of pain prob  
or poor Assessing same - 3 Spl  
padded covering front to sep - broken  
bones - long - to hand - flex  
arm - Ext and even put an in  
between pro and sup in, and abp  
~~take~~ roller part compress between  
about 2 no neck rotate pretty down  
or bend front finger above

1844.

Sacrum - Thomas J. Dunotte.  
Synops - Pain of Mumb - if dist - Pain  
swelling of abdomen - arising from rect  
and dist blad - Treat simple  
case - to keep pts rest - bend tight  
roller around pelvis, and bend  
thigh & legs together - must compress  
pass - flex thigh and legs on  
Then sup by a double inc plane  
thru pt pass. as often. If comp  
treat same plane - have nearly  
always through - put man on side  
if Curvum - pick away all loose  
bone gr and a painful inflam  
bent finger - open



don't attempt to replace by putting  
hand up rectum, have baralysis  
bladder rectum, may be restored.  
both lower - pass the catheter,  
same rectum, don't open the bowels  
for a week empty rectum 2 weeks  
space -

MS Cox - This by force & direct  
always drop one side or other.

The pieces may be drawn in  
into vagina - or - very vexatious  
leg - Easy kind path - acute  
at end rectum - but being can  
move - slight move of leg will be  
little or no coaptation.

Treat. If acrom coaptate  
by finger - retain there, by finger  
in rectum till swelling great  
enough to retain, - If salt dis-  
rush in place and retain  
by compress - If later don't better  
Rup by roller, when gets up  
don't let him sit on a soft  
cushion - as in more  
habit - great violence and  
support more delicate than  
others, force direct generally  
across ilium - find comp of great  
pain now high more, but  
hand over place, and move  
the thigh and chest up - and  
draw by thigh and by press  
on - Coast ilium - Sub pt



2 part if not treat prop is  
sure to produce —

Fract Sanson - a square  
plug - draw up - draw down  
easy - put plug along crest?  
I. delay all motion by making  
an arch of him, then take and  
pull feet down carry around  
crest and tie in perine now  
put on common band —

Fract Ant Sup Sp - P  
by musc contract, diag from hist  
less motion depression — delay  
mus - on thigh bend thigh as much  
as pos - bind frog into straps place  
Femur.

Head - given by Wunt. Stroke  
or give dist. wound - Dig Sup. Seat  
pain up to Aslet - by move pain -  
again by pulling the, have crest  
little or no deformity. Frog in  
Sup - foot, if young - if Serp  
Coxalgia. If old perone very low  
but shortening limb. Inferior  
hip nat. Intubinal ablast - sometimes  
occurs without any sup. Cause - nothing in  
dig. if Comp and common pick away the  
pieces Treat If Simple Treat White  
blooms  
Len

Isaac Cervery - only one bone  
fracture to advanced age, reason  
being to change in angle of bone  
approach L. Also to ~~form~~ the angular  
fracture more acute, and from width  
of pelvis. Brought together; Separated more  
slight from previous

Sympt - Shortening limb - as a general rule  
extension limb from weight and action on  
opposite muscles, are sufficient because the  
upper part drawn against muscle fibres  
until the limb lengthened - The shaft rotates  
as if on a pivot. Diag - Very freq -  
confounded with luxation, in latter  
limb rigid, if place limb in situation  
fractured stays there, often deformed by  
bony fragments Sometimes impacted the  
shaft - very diff - only Sympt - Intense  
pain, and if rotate the thigh inward  
and slight crepitus in shaft, always  
treat as a fracture, and guard -  
in all such bone cases -

Prognosis - Be cautious diff if part in the  
capsule - very liable to shortening, if patient old  
and fleshy and continued deformity in all prob  
have short limb - if young - same in all prob  
but good cure, osses union rarely occurs  
be very cautious. generally have less union  
very little blood and cellular tissue synovial  
fluid difficult to keep fragments together.

Treatment. Depend on age, if old - all  
can do - make comfort, if young -



We make attempt to give good joint  
to old. Get a low bedstead, mattress  
and ducking bottom - have double inch pl  
and pad them, make comfortable  
Rup here two or three weeks - if longer have  
bed sore - at end 2<sup>nd</sup> week take away  
boards and have double inch of pillows  
and or Reck Strat - Change of position  
more; and bring to end of bed  
and make sit up - At end 6<sup>th</sup> week  
at end 8<sup>th</sup> week crutches and Rup  
for 8 or 10 months - High heel shoe

If person young - put same apparatus -  
Tract Trochanter  
Lyme - loss motion from troch take away  
and have depress - and move turner  
the crop - and, must paralyze middle  
lateral limb - and put parts in apper -  
Rup there by hand - and relief - not  
expect long anim. Rup in 5 or 6<sup>th</sup> -  
week - usually result in weak limb

Shaft below Troch -

up - pass - up and out Ps. Merg  
II - Int. Short limb turner above and  
above limb compact - creptus, must  
in Troch by act - me - in 2 ways  
act one up - pass - by band across  
up pass and around, Sometimes double  
line plan and tie down;





FRACTURE OF THE CERVIX WITHOUT THE CAPSULAR LIGAMENT, OR PARTLY  
WITHIN AND PARTLY WITHOUT.

*Liability.*  
*Causes.*  
*Age most liable.*  
*Varieties.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

FRACTURE OF THE TROCHANTERS.

*Liability.*  
*Causes.*  
*Varieties.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

FRACTURE OF THE SHAFT JUST BELOW TROCHANTERS.

*Liability.*  
*Causes.*  
*Varieties.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

FRACTURE OF THE SHAFT.

*Liability.*  
*Causes.*  
*Varieties.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

FRACTURE OF THE CONDYLES.

*Liability.*  
*Causes.*  
*Varieties.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

XX. PATELLA.

*Liability.*  
*Causes.*  
*Varieties.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

XXI. BONES OF THE LEG.

*Liability.*  
*Causes.*  
*Variety.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

FRACTURE OF FIBULA ALONE.

*Liability.*  
*Causes.*  
*Varieties.*  
*Part of bone usually broken.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

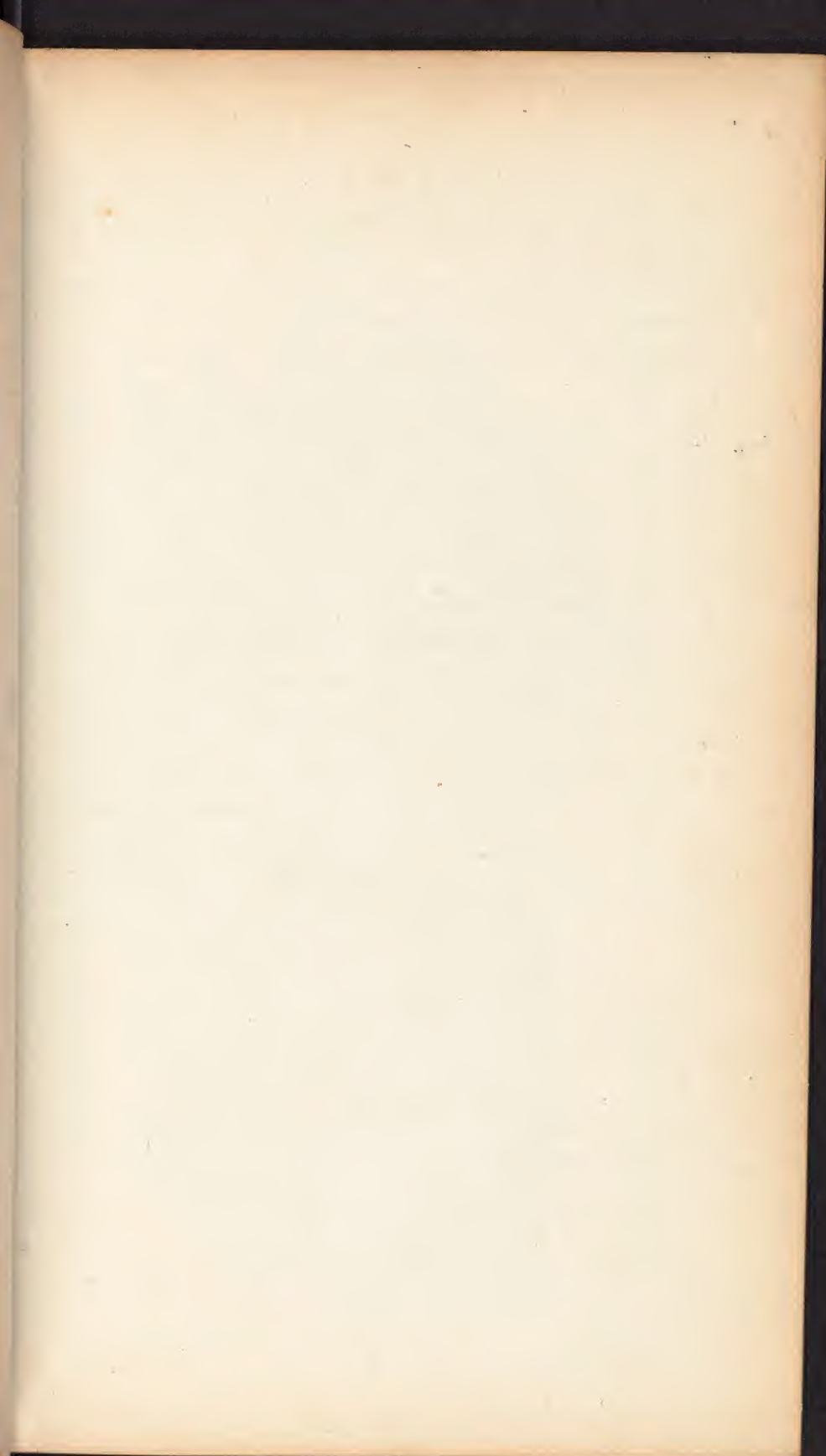
FRACTURE OF TIBIA ALONE.

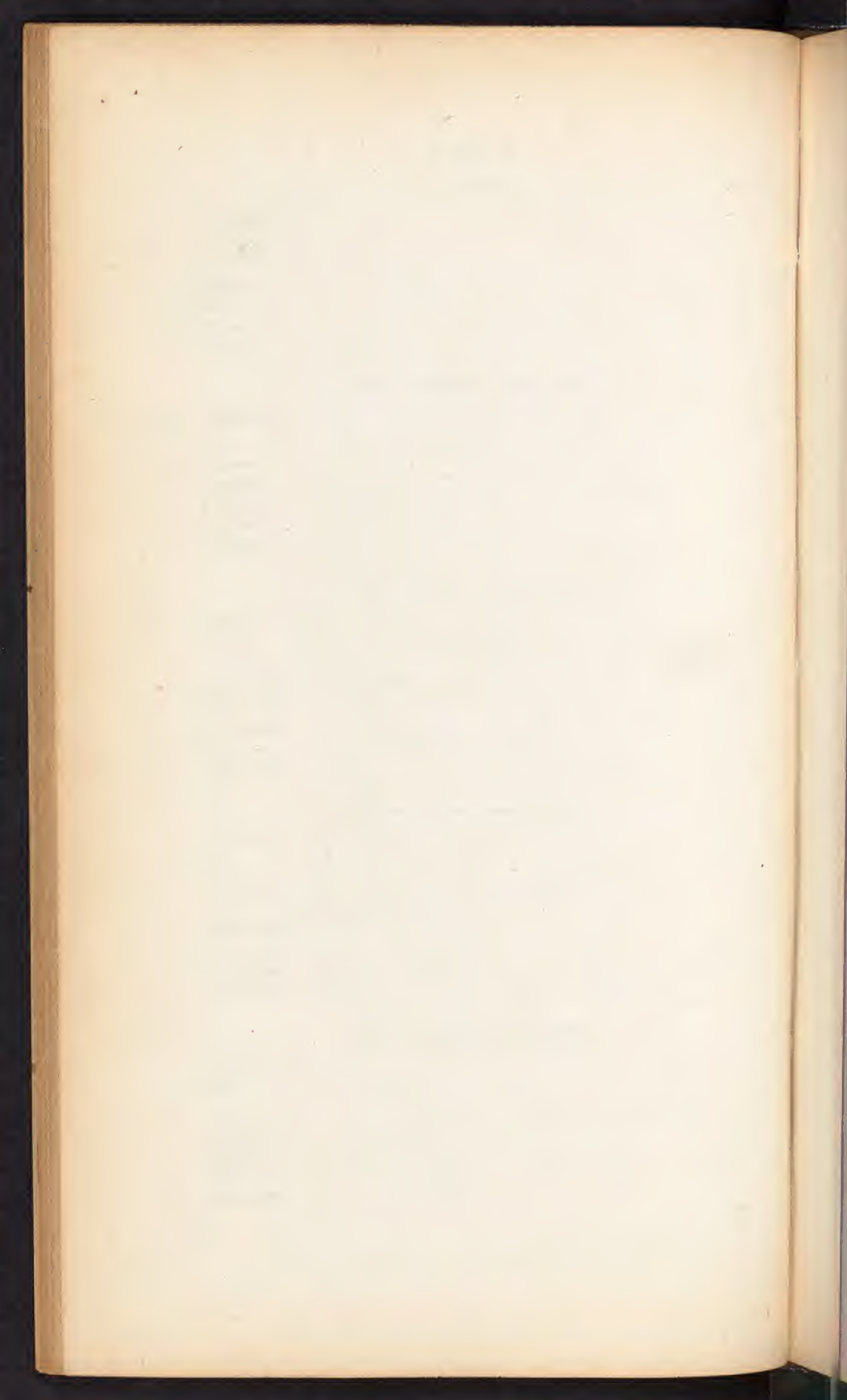
*Liability.*  
*Causes.*  
*Varieties.*  
*Part of bone usually broken.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

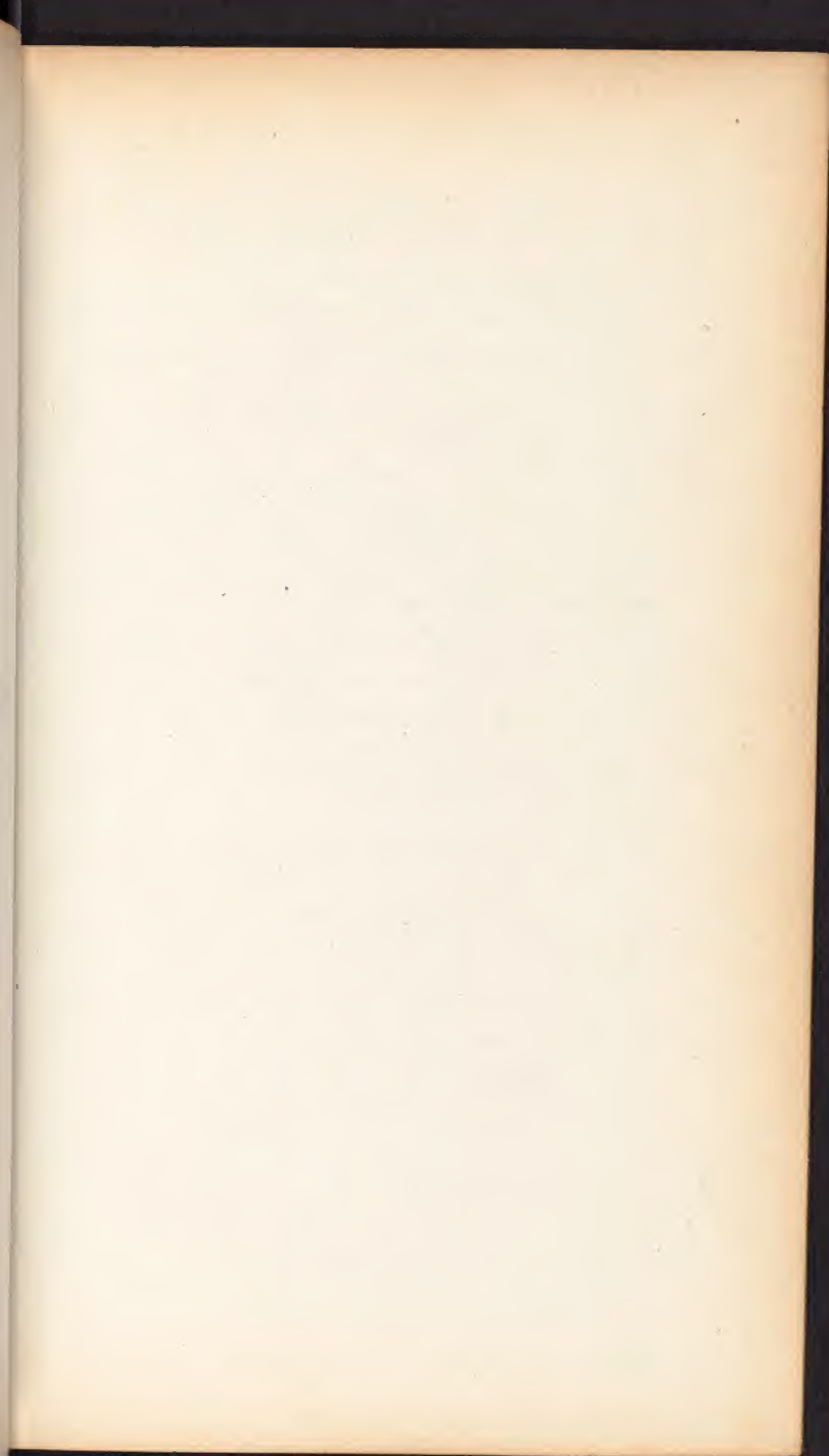
XXII. BONES OF THE FOOT.

*Liability.*  
*Causes.*  
*Varieties.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*



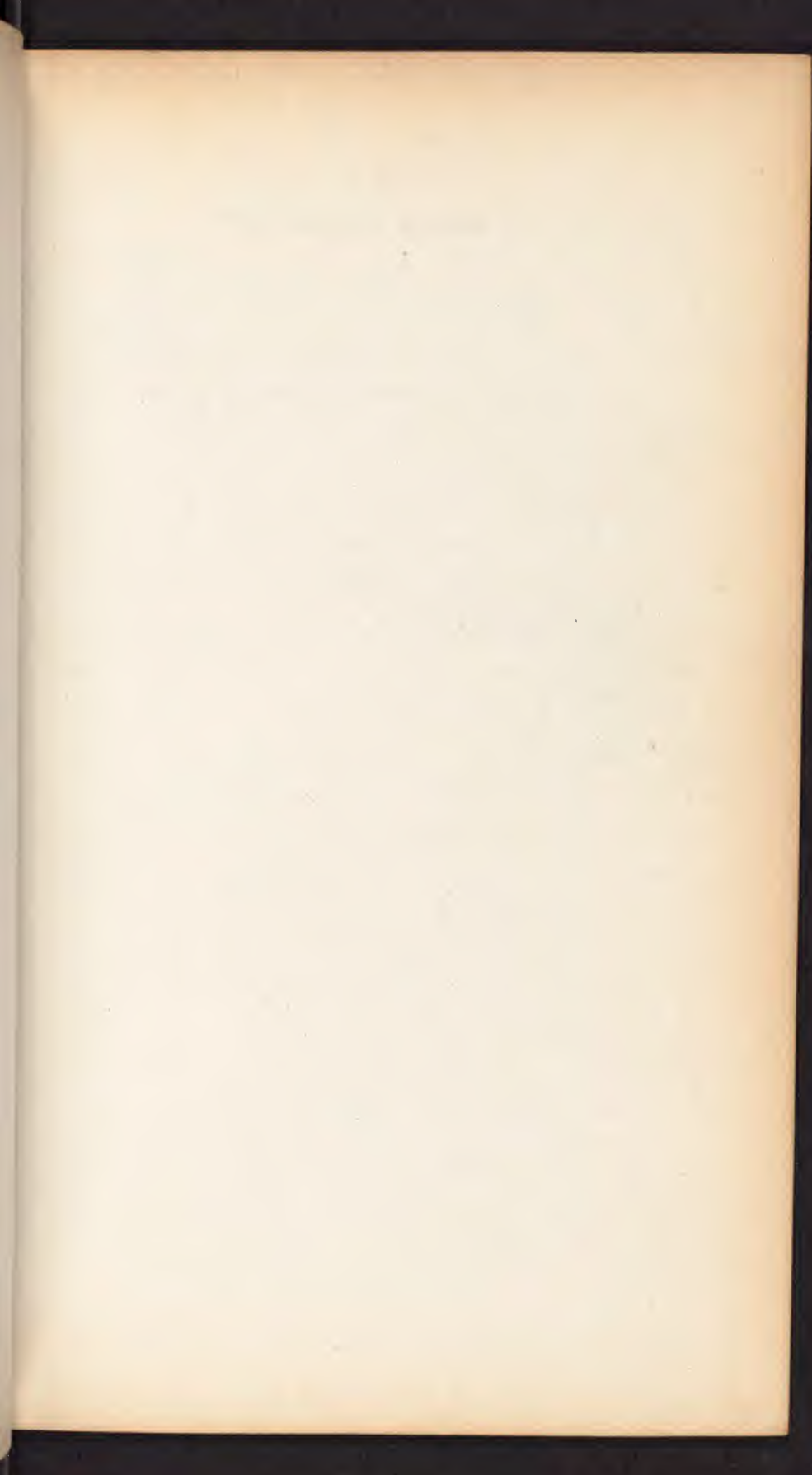
















FRACTURE OF OS CALCIS.

*Liability.*

*Causes.*

*Varieties.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

## 2. DISEASES AND INJURIES OF THE JOINTS.

### GENERAL REMARKS.

JOINTS MOST LIABLE TO DISEASE.

CAUSES OF DISEASE.

EFFECTS ON CONSTITUTION.

CLASSIFICATION.—All the diseases of the joints may be ranged under nine heads.

1. Diseases originating in the soft parts, either *intra* or *extra*-articular.
2. Diseases originating in the hard tissues of a joint.
3. Affections which may be considered as products or terminations of diseased action.
4. Malignant diseases of the joints.
5. Wounds.
6. Sprains.
7. Dislocations.
8. Congenital luxation.
9. Diseases of the *bursæ mucosæ*.

### FIRST HEAD.

- a.* Synovitis—acute and chronic.
- b.* Hydrops articulari.
- c.* Abscess.
- d.* Elongation of ligaments.
- e.* Inflammation of ligaments.
- f.* Fleshy tumours of the synovial membranes.
- g.* Loose cartilages in the joints.
- h.* Certain forms of white swelling.
- i.* Coxalgia, or hip disease.
- j.* Neuralgia.
- k.* Inflammation of the cellular tissue.

### SECOND HEAD.

- a.* Certain forms of white swelling.
- b.* Certain forms of coxalgia.

### THIRD HEAD.

- a.* Hypertrophy of articular cartilage.
- b.* Atrophy of articular cartilage.
- c.* Eburnation of articular cartilage.
- d.* Softening of articular cartilage.
- e.* Ulceration of articular cartilage.

False cartilage - often attached  
in crown - one exception by a pedicle -  
so long as pedicle attached does not  
obtain, when broken no difficulty.  
numbers vary in size and shape  
if smooth and flat little difficulty  
in removing, if rough small diff  
iculty. No synovial inflam.

Symptoms - peculiar pain no  
external deformity. sudden arrestation of  
articular movement, if it exist and  
moves it will produce chronic synovitis -

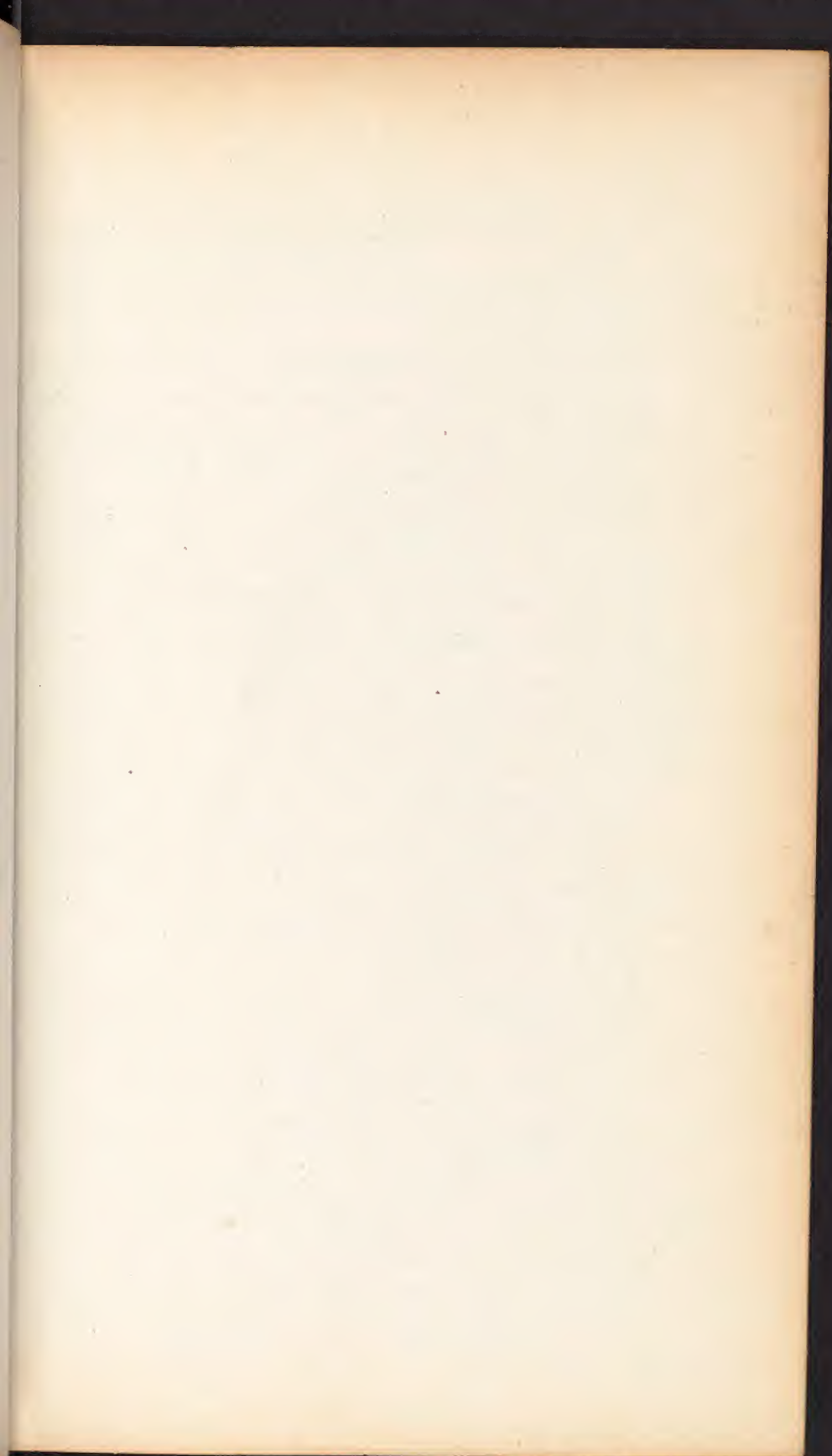
Two modes of compression and  
open - more unfavourable than other.

The process may be made - then must  
operate. Subcutaneous make valve open  
4 in above joint - and pass knife  
down. Always indicated by Comp -  
Treat by small active ~~inflammation~~  
anti phlogistics.

White swelling

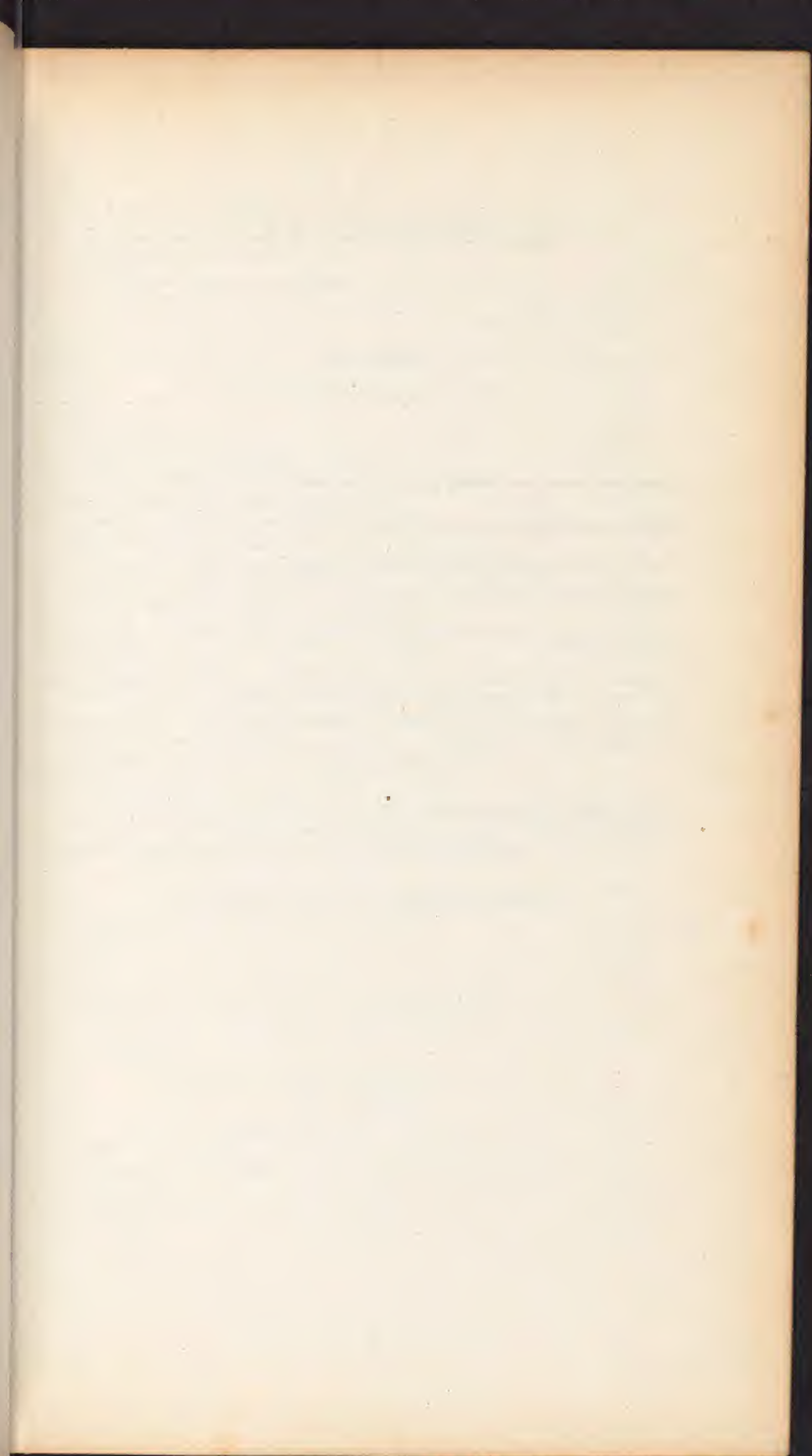












i  
b  
d  
a  
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e  
H  
n

- f. Reparation of articular cartilage after wounds, &c.
- g. Alteration in the form of the head and neck of the long bones.
- h. Collections of blood in a joint.
- i. Chalkey concretions in a joint.
- j. Anchylosis.

### *First Head.*

## I. SYNOVITIS.

### *Definition.*

*Causes.*—1. Constitutional. 2. Local.

*First, or constitutional.*—Rheumatism, gout, gonorrhœa, parturition, pregnancy, checked leucorrhœa, catheterism.

*Second, or local.*—Blows, strains, mechanical injuries of all kinds, foreign bodies in the joints, wounds.

*Symptoms.*—Pain on the slightest motion; swelling, redness, heat and tenderness of the skin; fluctuation; displacement of any loose bone or cartilage about the joint; and constitutional disturbance.

*Diagnosis.*—May be confounded with inflamed bursæ, but scarcely with any thing else.

*Prognosis.*—Varies. When but one joint is affected—when the cause is local—when the inflammation runs high—it may terminate in ulceration or degeneration of the synovial membranes, ulceration of the cartilages and bones, necrosis, the loss of the joint, or even the life of the patient. Under other circumstances, the prognosis is rather favourable.

### *Dissection.*

*Treatment.*—General indications. 1. Remove the cause. 2. Subdue the inflammation by general and local antiphlogistic remedies. 3. Employ specific remedies when the cause is specific. 4. Prevent anchylosis.

## II. HYDROPS ARTICULI, OR HYDRARTHUS.

### *Definition.*

### *Causes.*

### *Symptoms.*

### *Diagnosis.*

### *Prognosis.*

### *Dissection.*

### *Treatment.*

## III. ABSCESS.

### *Causes.*

### *Symptoms.*

### *Diagnosis.*

### *Prognosis.*

### *Dissection.*

### *Treatment.*



#### IV. ELONGATION OF LIGAMENTS.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Dissection.*  
*Treatment.*

#### V. INFLAMMATION OF LIGAMENTS.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

#### VI. FLESHY TUMOURS OF THE SYNOVIAL MEMBRANE.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

#### VII. CARTILAGES IN THE JOINTS

*Definition and history.*  
*Joints most liable.*—The ginglymoidal, especially the knee, elbow and jaw.  
*Condition in the joint.*—Loose or attached.  
*Size.*—Varies.  
*Consistence.*—Varies.  
*Structure.*—Scarcely organized.  
*Number.*—Varies.  
*Mode of formation.*—Different explanations. Those of Paré, Monro, Erlangen, Hunter, Cooper, and Brodie, referred to.  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*—Two general methods. 1. Compression. 2. Extraction. Relative value of the two. Dangers of extraction referred to, and the different operations, especially that of Goyraud and Syme, explained.

#### VIII. WHITE SWELLING, OR FUNGUS ARTICULI.

*Definition.*  
*Confusion in relation to the precise meaning of the term.*  
*Brodie's classification.*—According to Sir Benj. Brodie, all the cases of white swelling may be referred to one of four different lesions. 1. Simple inflammation of the synovial membrane. 2. Gelatinous degeneration of the synovial membrane. 3. Ulceration of the cartilages. 4. Ulceration of the bone.  
*Ages most liable.*  
*Joints most liable.*

OLD

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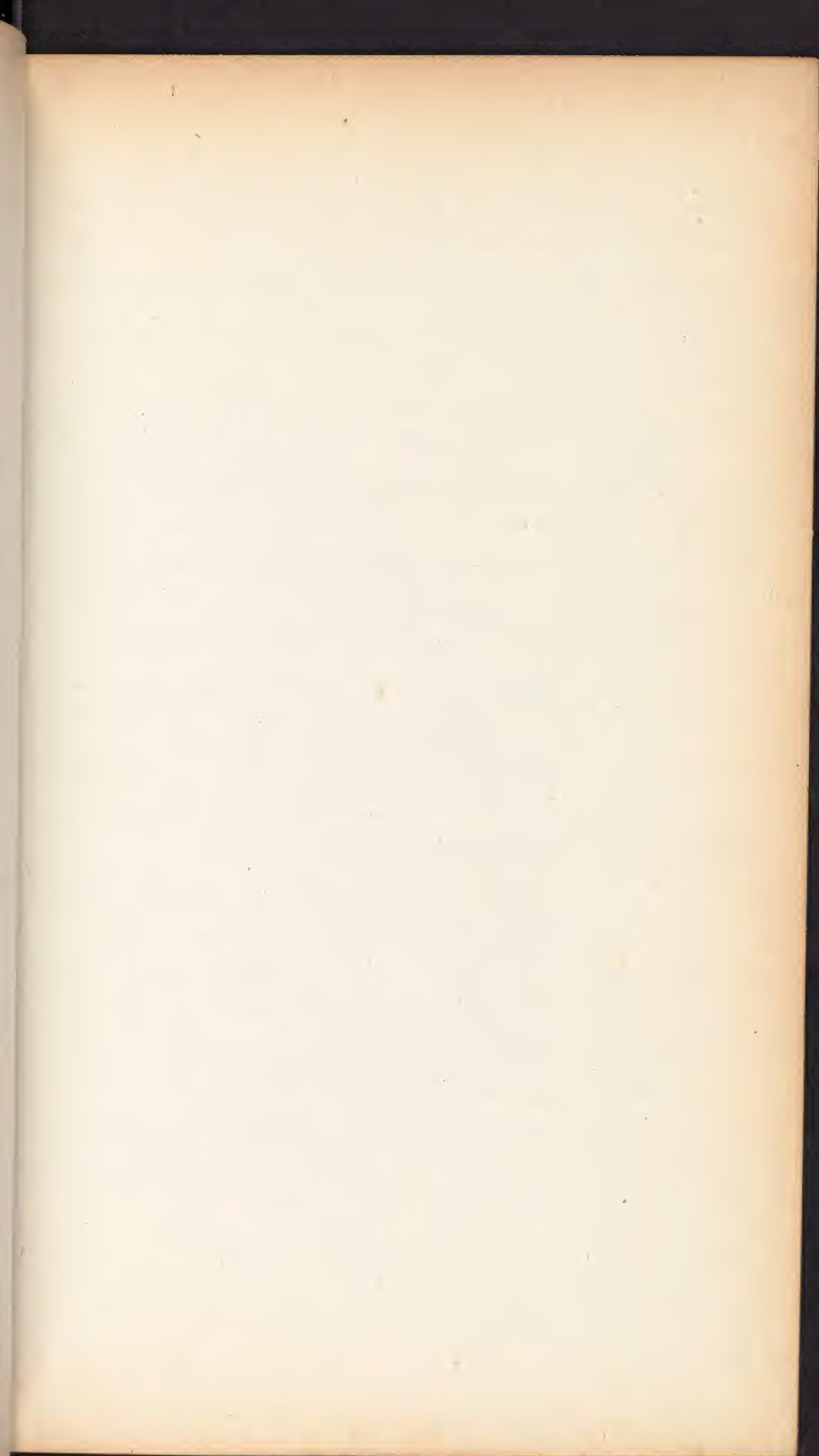
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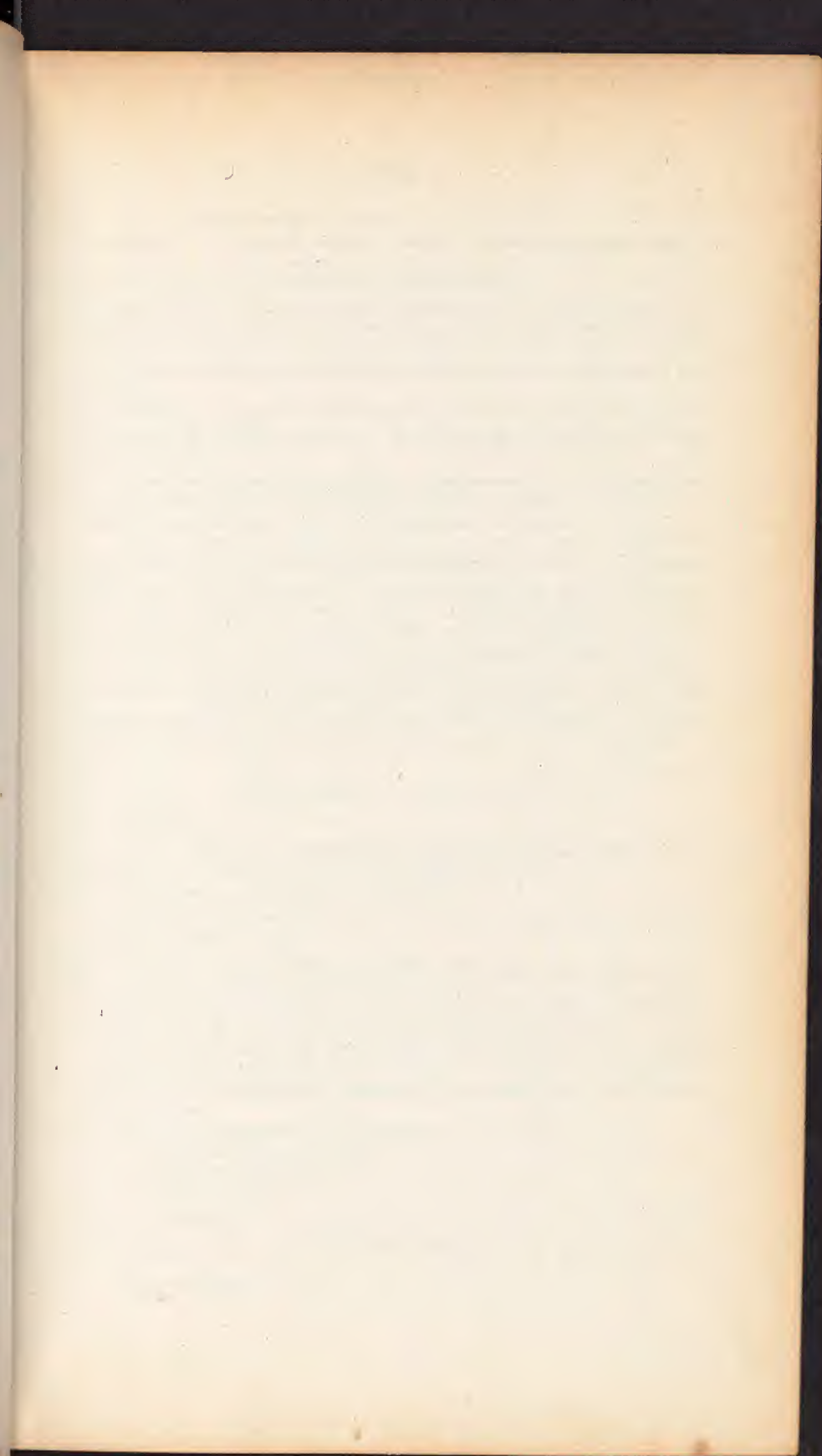
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*Causes.*—Constitutional and local.

*Symptoms.*—Vary with the form of lesion. Three groups may be made.

*Diagnosis.*—Highly important to distinguish one from the other.

*Prognosis.*—Varies, but generally it is unfavourable.

*Terminations.*—Resolution, ankylosis, suppuration, alteration of all the tissues of the joint, necrosis, the loss of the joint or limb, or the life of the patient.

*Dissection.*—Depends on the stage at which it is made, and the form of the disease.

*Treatment.*—Differs somewhat in each variety, but there are certain general indications that will answer for all. The remedies are of course both *constitutional* and *local*.

*General indications in the first stage of the disease.*—1. Keep the part at rest by splints and position. 2. Employ general and local antiphlogistics if inflammation runs high. 3. Prevent contraction of the limb.

*General indications in the second stage.*—1. Counter irritation should be employed. 2. Pressure as recommended by Scott is often useful. 3. Employ alteratives to suit the diathesis. 4. Keep the joint at rest, while the patient is allowed, if possible, access to the fresh air. Crutches and sling, &c. 5. Support the strength if prostration should supervene. 6. Prevent ankylosis.

*General indications in the third stage.*—1. Support the general health. 2. Never open the abscess unless we are forced so to do by peculiar circumstances. 3. Poultice the part after the abscess opens. 4. Keep the joint in a splint. 5. It is often essential to obtain ankylosis, to save the life of the patient. 6. When all our remedies fail, and the patient is sinking, *amputate* or *excise* the joint.

## IX. COXALGIA, OR HIP DISEASE.

*Definition.*

*Persons most liable.*—Children of a scrofulous habit, from three to four years of age, or from seven to fourteen. May occur in adults.

*Causes.*—1. Constitutional. 2. Local.

*First, or constitutional.*—Scrofula, atmospheric changes, rheumatism, repelled eruptions.

*Second, or local.*—Mechanical injuries of every kind.

*Symptoms.*—May be divided into four groups. 1. Those which characterize the period of apparent *elongation* of the limb, with slight pain in the knee and lameness, &c. &c. 2. Those which belong to the period of *shortening* of the limb, with pain in the hip itself, &c. &c. 3. Those which characterize the period of suppuration and ulceration in the joint. 4. Those which indicate convalescence. The causes of *elongation* and *shortening* in the first and second stages explained.

*Diagnosis.*—May be confounded with—

a. Fracture of the cervix femoris.

b. Luxation of the caput femoris.

c. Congenital luxation.

d. Rheumatism.

e. Chronic inflammation of the upper third of the femur.

f. Sciatica.

g. Psoas abscess.

*Prognosis*.—May be stated to be generally unfavourable.

*Dissection*.—The appearance on dissection depends upon the stage and progress of the disease.

*Pathology*.—Much diversity of opinion on this point. State my own views.

*Treatment*.—General indications. 1. Rest and the antiphlogistic system throughout the first stage. 2. Place the limb in a splint of such construction as shall maintain the limb as nearly in its natural position as possible, so that when resolution cannot be obtained, and false joint or ankylosis must be brought about, the patient may still retain its use. Speak of Physick's and Humbert's method of practice. 3. Attend to the diathesis. 4. Apply counter irritants. 5. Support the health when this support is indicated. 6. Evacuate pus when it is formed in large quantities, poultice, and support the health. 7. When resolution cannot be obtained, endeavor to form a false joint, or establish ankylosis. 8. After inflammation has subsided, and the limb remains shortened from muscular contraction, it is often useful to employ Humbert's method of reduction. Point out the dangers of this practice, as well as its advantages. 9. Protect the limb for some time after the cure has been established. 10. When the limb is shortened or deformed, apply some apparatus by which the patient will be enabled to walk with comfort.

## X. NEURALGIA.

*Definition*.

*Persons usually attacked*.

*Causes*.

*Symptoms*.

*Diagnosis*.

*Prognosis*.

*Treatment*.

## XI. INFLAMMATION OF THE CELLULAR TISSUE EXTERIOR TO THE JOINT.

*Causes*.

*Symptoms*.

*Diagnosis*.

*Prognosis*.

*Treatment*.

### *Second Head.*

#### I. CERTAIN FORMS OF WHITE SWELLING.

For the characteristics of these forms, refer to what has already been given under the first head.

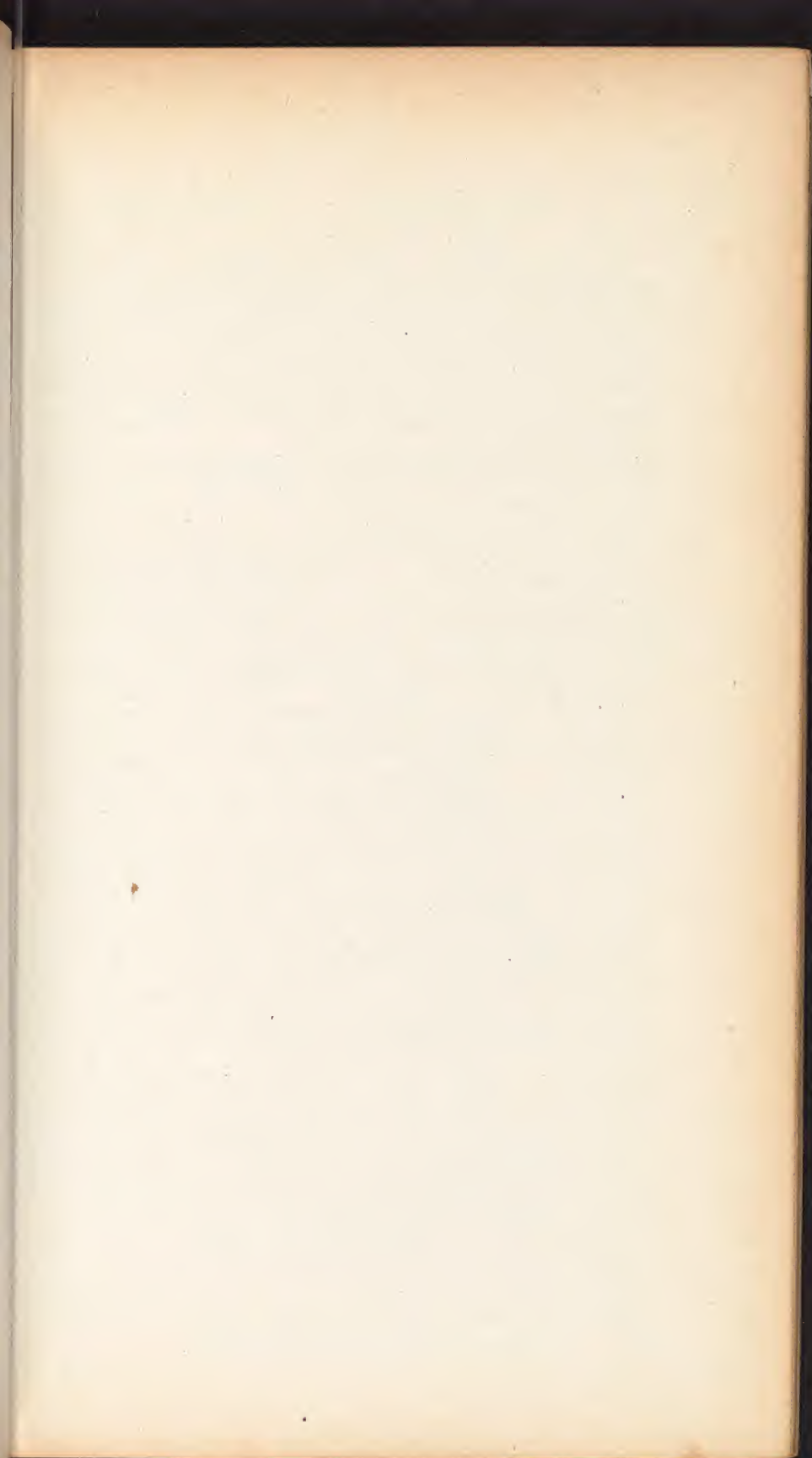
#### II. CERTAIN FORMS OF COXALGIA.

For the characteristics of these forms, refer to what has already been said under the first division.



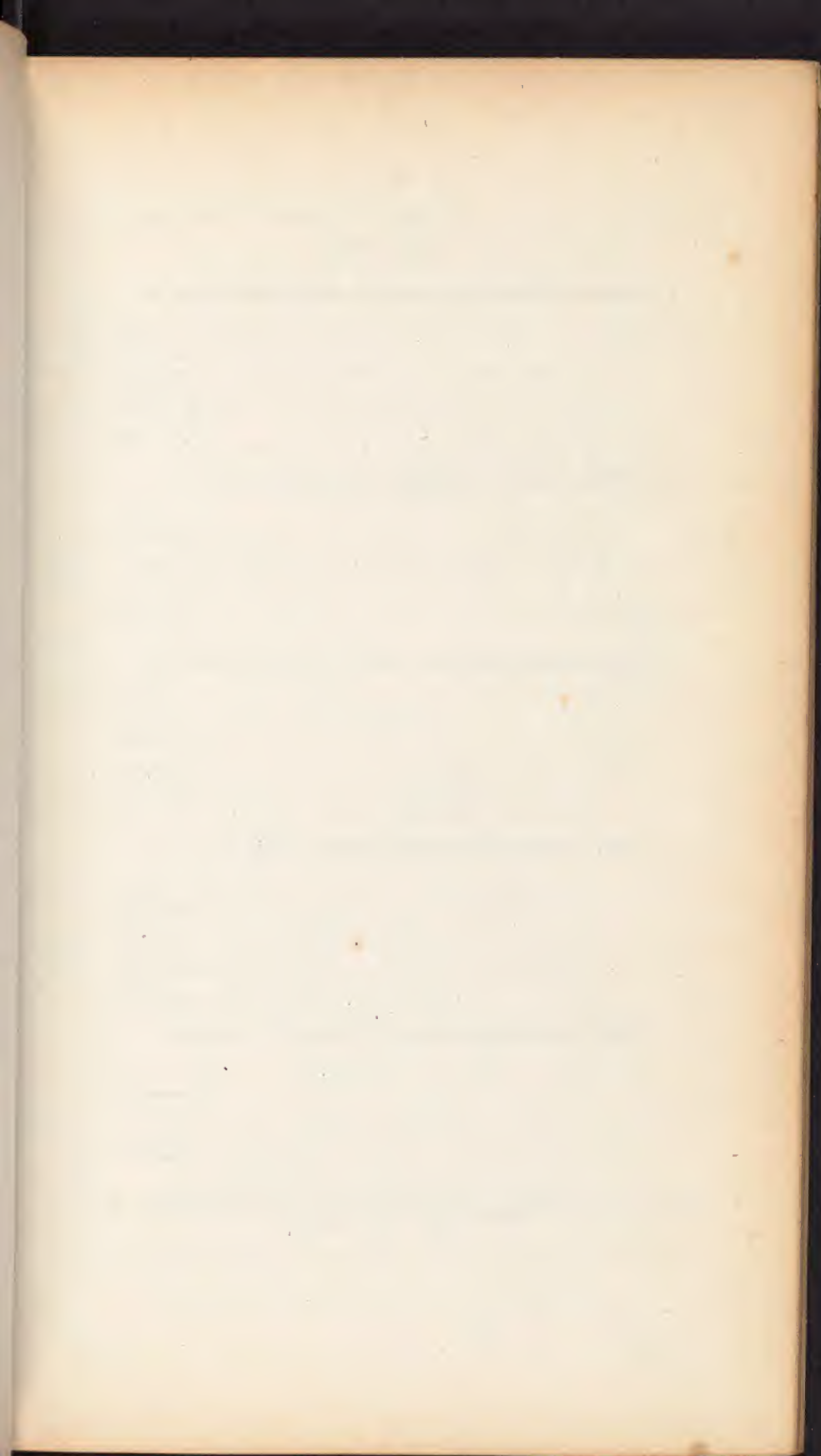
Neuralgic - Intat - Suppore  
has rheumatism - Pale - Unnat - app-  
tite if pain intermittent, no swelling  
no redness or heat, will complain as  
much by slight as by violent  
move. Full doses Flare - Diet  
good - and Sout - better lotion  
Sine Arnica - shower bath,















*Third Head.*

I. HYPERTROPHY OF THE ARTICULAR CARTILAGES.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*

II. ATROPHY OF THE ARTICULAR CARTILAGES.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*

III. EBURNATION OF THE ARTICULAR CARTILAGES.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*

IV. SOFTENING OF THE ARTICULAR CARTILAGES.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*

V. ULCERATION OF THE ARTICULAR CARTILAGES.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

VI. REPARATION OF THE ARTICULAR CARTILAGE AFTER  
WOUNDS AND FRACTURES.

Describe this process.

VII. ALTERATION IN THE FORM OF THE HEAD AND NECK OF THE LONG BONES.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

VIII. COLLECTIONS OF BLOOD IN THE CAVITY OF A JOINT.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

IX. CHALKEY CONCRETIONS IN AND AROUND JOINTS.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

X. ANCHYLOSIS.

*Definition.*

*Classification.*—1. Partial or local.

2. General or universal.

1. True or complete.

2. False or incomplete.

1. Extra capsular.

2. Intra capsular.

3. Capsular.

*Causes.*—Most of the causes operate by keeping the parts motionless, or nearly so, for a length of time. For example : diseases of various kinds, tumours, fractures, dislocations, simple rest, cicatrices, injuries of tendons and muscles, paralysis of one set of muscles, contraction of fascia, &c.; others operate under all circumstances, as old age, chronic rheumatism or gout. Sometimes it is a protective effort of nature, as seen in curvatures of the spine, ankylosis of diseased joints, &c.

*Liability.*—Ginglymoid joints are more frequently thus affected than the orbicular. Why?

*Symptoms.*—Depend on the variety of ankylosis.

*Diagnosis.*—Cannot be confounded with any other affection. There is often much difficulty, however, in the distinguishing one form from another.

*Prognosis.*—Varies with the character of the lesion—the nature of its cause—the duration of the case—the age and health of the patient—the joint involved, &c.

*Dissection.*—Varies with the kind of ankylosis.

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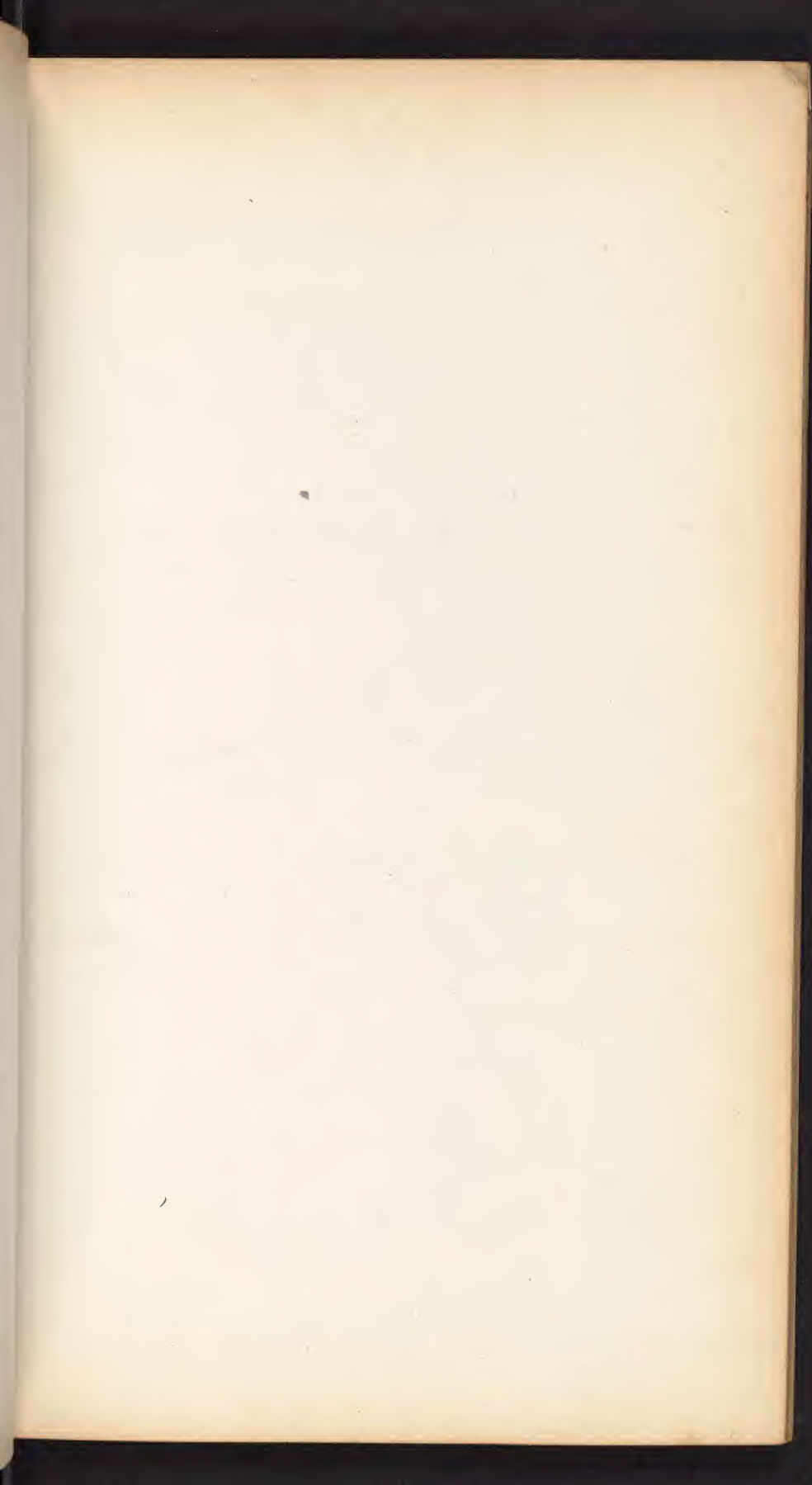
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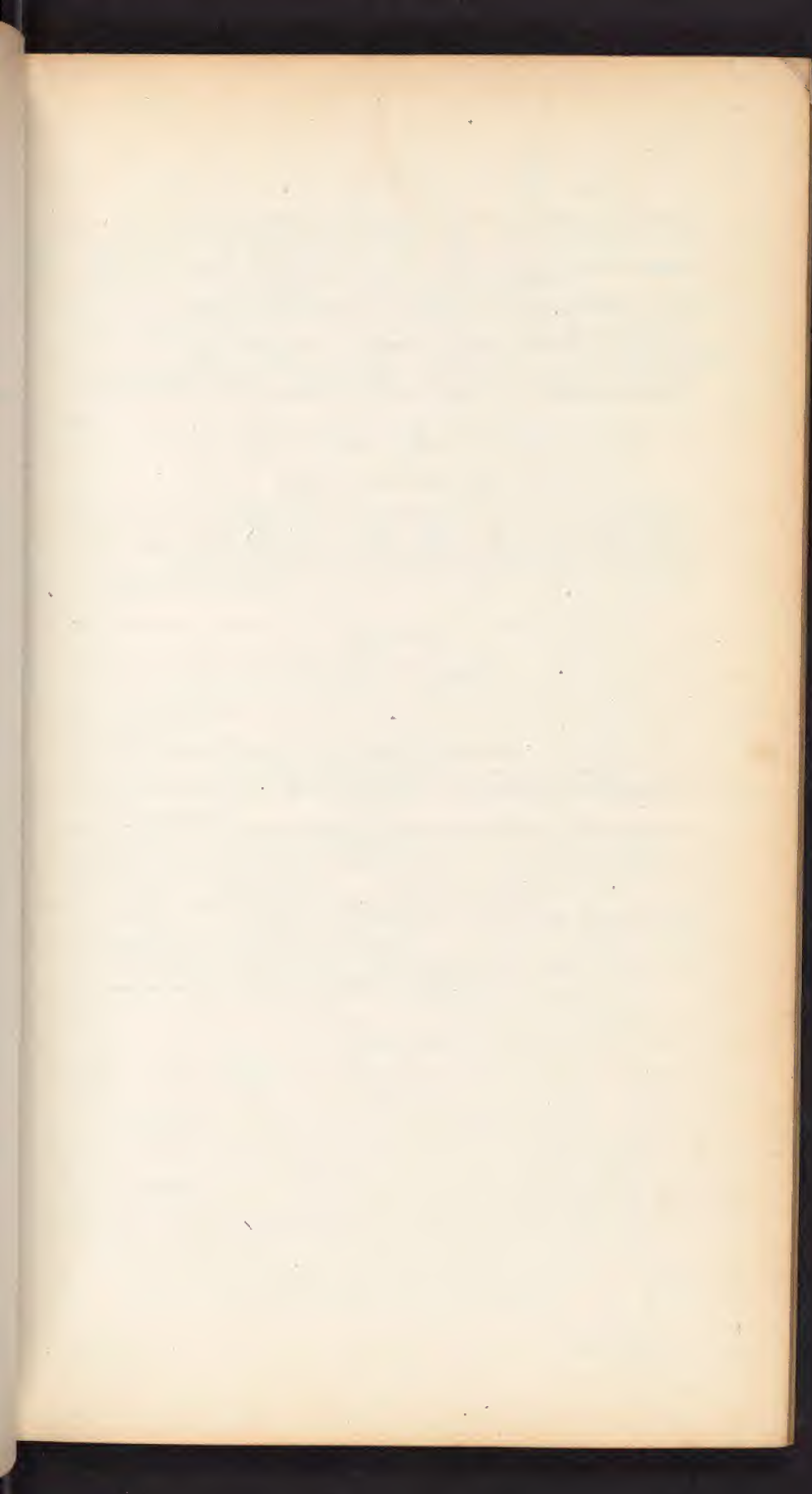












Wounds I. divided Superficial  
and punctured, be careful in stitching  
not to take a stitch through main line  
in bad lacerated wounds. - must perform  
sliding operation. If ball lodge in joint  
take a Trophimus if can see take  
out - but if can see it get it out

*Treatment.*—In true ankylosis we can only relieve the patient by establishing a false joint, or straightening the limb by cutting out a plug of bone, as performed by Dr. J. R. Barton. Never excise the joint, nor amputate the limb, as advised by some; nor should we attempt Louvrier's operation.

In false ankylosis, the treatment is modified by the cause of stiffness. The agents usually employed are passive motion, frictions, electricity, galvanism, vapour bath, the screw, division of tendons, fascia and muscles, excision of cicatrices, and some contrivance to take the place of paralysed muscles, as advised by Sir C. Bell. The comparative merit and dangers of these means explained.

#### Fourth Head.

##### MALIGNANT DISEASES.

The joints are liable to be attacked with malignant diseases of various kinds, but especially with malignant exostosis, medullary sarcoma and fungus hematicus. For the characteristics of these diseases, as well as their treatment, see chapter on "Tumours."

#### Fifth Head.

##### WOUNDS OF JOINTS.

*Division.*

*Causes.*

*Symptoms.*—Vary with the character of the wound.

*Diagnosis.*—Generally, there is no difficulty in deciding upon the character of the wound at once. Punctured wounds may be confounded with wounds of the bursæ mucosæ.

*Prognosis.*—Depends on the joint injured, the character of the wound, the age and health of the patient, the season of the year, and the possibility of obtaining the proper remedy.

*Dangers.*—Inflammation, tetanus, caries, and necrosis.

*Dissection.*—The appearances on dissection depend upon the stage of the disease, at which the examination is made.

*Treatment.*—Divided into—1. Constitutional. 2. Local. The remedies must be modified to suit the peculiarities of the case.

#### Sixth Head.

##### SPRAINS.

*Definition.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Results or effects of the injury.*

*Treatment.*



## Seventh Head.

## DISLOCATIONS.

*Definition.*

*Causes.*—1. Predisposing or remote. 2. Proximate or efficient. The first class may be subdivided into the *local* and *general*.

(1.) The local predisposing causes are—

- a. Preternatural length of the ligaments of a joint, (see Stanley.)
- b. Peculiar congenital formation of the joint.
- c. The form of the joint.
- d. Paralysis of the muscles around the joint.
- e. Disease of the constituent tissues of a joint.
- f. Hydrops articuli.
- g. Tumours or earthy deposites in or about the joints.
- h. Interstitial change in the articulating surfaces.

The general predisposing causes are—

- a. Preternatural laxity of the entire ligamentous system, (see Delpech.)
- b. The age. Dislocations are rare in the *very young* or *very old*.

(2.) *Local or external causes.*

- a. External violence.
- b. Muscular action.

*Joints most liable to luxation.*—The ball and socket joints, from the character of their articulating surfaces; the weakness of their ligaments; and their subjection to the influence of a larger number of muscles, are more frequently dislocated than the ginglymoid.

*Classification of dislocations.*—The first division is based upon the definitive position of the head of the bone. Thus we have—

- a. Primitive luxation.
- b. Consecutive luxation.

The second degree is based upon the degree of displacement. Thus we have:

- a. Complete luxation.
- b. Incomplete luxation, or sub-luxation.

The third division is based upon the duration of the accident. Thus we have:

- a. Recent luxation.
- b. Old luxation.

The fourth division is based upon the degree of injury inflicted upon the adjacent soft parts or the bones themselves. Thus we have—

- a. Simple luxation.
- b. Compound luxation.
- c. Complicated luxation.

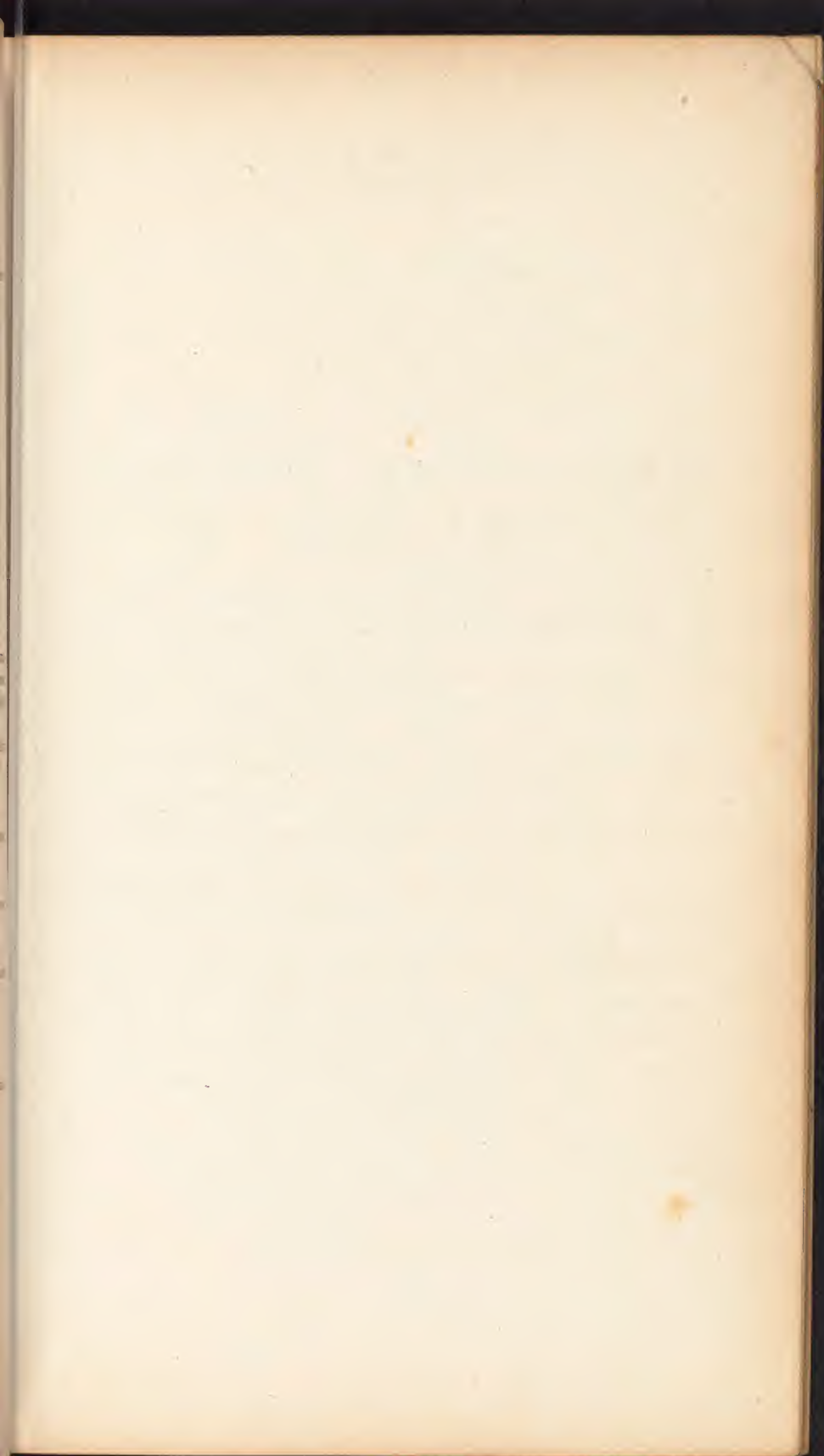
*Symptoms of luxation.*—1. Rational or Physiological. 2. Sensible or Physical.

First, or rational.

- a. Pain.
- b. Numbness or paralysis in limb.
- c. Loss of motion.
- d. Constitutional disturbance.

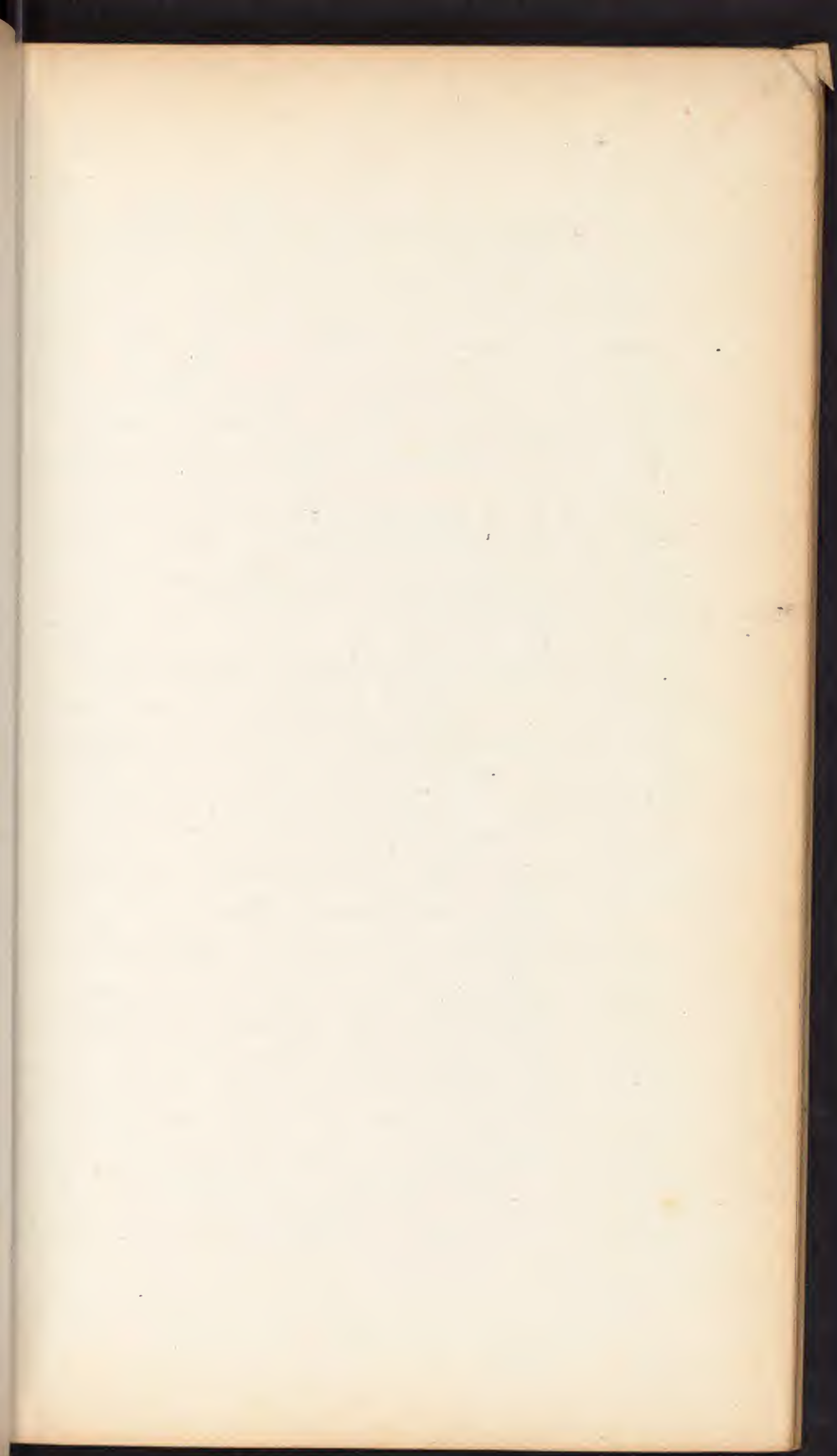
Second, or physical.

- a. Change in the entire form of the limb.
- b. Change in the natural length of the limb.

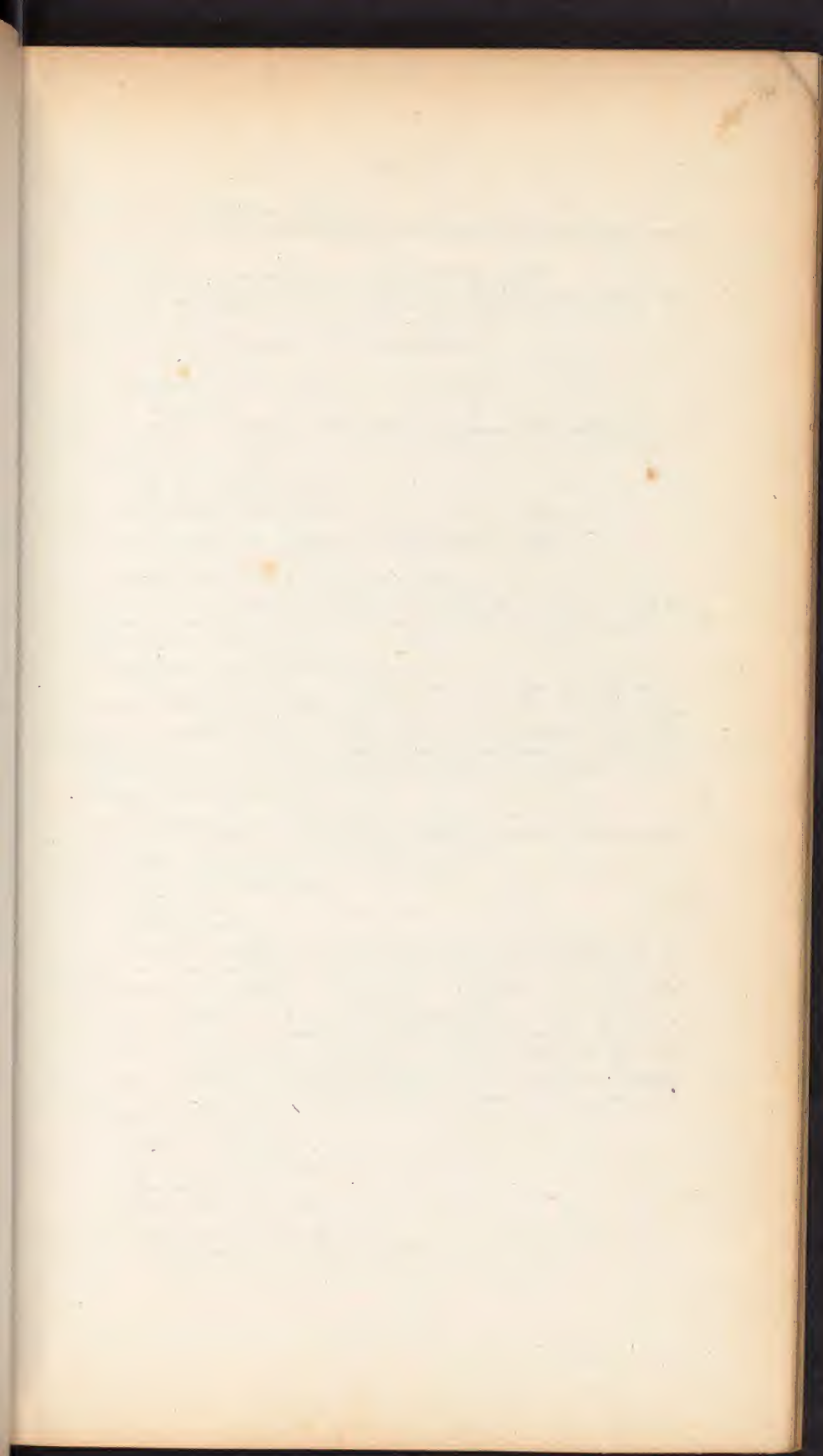
















- c. Unnatural rigidity of the limb.
- d. The disappearance of preternatural enlargement of the natural prominences of the joint.
- e. The appearance of unnatural cavities about the joints.
- f. The appearance of a tumour (formed by the head of the bone) in the vicinity of the joint.

*Diagnosis.*—Dislocations may be confounded with—

- 1st. Fractures.
- 2d. Sprains.
- 3d. Bent bones.

*Prognosis.*—Depends on a variety of circumstances. It is modified, for example, by—

- a. The joint involved.
- b. The degree of displacement.
- c. The duration of the injury.
- d. The degree of injury sustained by the soft parts of bones.
- e. The constitution of the patient.
- f. The direction taken by the head of the bone.

*Dissection.*—Appearances depend on the duration of the injury, and the tissues upon which the head of the bone rests.—State the usual appearance in recent and old luxations.

*Treatment.*—General indications.

1. The general condition of the patient demands our first attention, and before we attempt to relieve the injury he must be placed in as comfortable a position as possible, his fears calmed, and reaction to a certain degree established. It is sometimes well to deviate from the last direction, for should the patient faint from pain merely, his muscles are in the most favorable condition for our attempts at reduction.

2. As there is always displacement, "*reduction*" will be required. This may be accomplished, in many cases, by the employment of *mechanical means* alone, but often *constitutional agents* are required.

The mechanical means are—

- a. Extension.
- b. Counter extension.

c. Change in the position of the different bones.—To accomplish these objects we employ *the hands of assistants, bands, rollers, the pullies, and various apparatus* for overcoming muscular resistance.—The forces must be applied *steadily and slowly, they must also be equal* and generally in the *line of displacement*.—Muscular resistance is often overcome by directing the patient's mind from the set of muscles concerned in the accident.—We must also select the *part* upon which our *extending and counter extending bands* are to be placed. Difference among surgeons on this point.—The obstacles to reduction by mechanical means alone are—

- 1. Muscular contraction.
- 2. The degree of laceration of the soft parts.
- 3. The shape of the joint.
- 4. The locking of the bones.
- 5 The existence of adhesions.
- 6. The interposition of tendons or ligaments.

The constitutional remedies employed, are intended chiefly to produce prostration, so that all muscular resistance is destroyed; and the most efficient are :

- a. Bloodletting.
- b. Hot bath.
- c. Tart. Antim. et Potassæ.
- d. Fumes of tobacco, or injections of its infusion.
- e. Intoxication.
- f. Etherification.

Value of Myodiatomy in difficult cases discussed.—Also the propriety of attempting the reduction of *old luxations* considered.

3. From the partial paralysis of the muscles, and laceration of the ligaments, it is essential to apply some mechanical means to prevent the recurrence of the luxation.—The usual dressings for fractures of the same bones may be employed, for a week or two after the reduction of the accident.

4. As inflammatory symptoms may supervene, measures must be taken to prevent their occurrence, and should they occur in spite of our efforts to the contrary, the antiphlogistic system in all its details must be employed.

5. For the rigidity, which, in almost every case, is the result of the dislocation, the remedies already mentioned as applicable to the same difficulty coming on after fractures, may be had recourse to.

6. When complicated with fracture, always recollect to dress both injuries before you leave the patient, and also to adopt the plan of treatment already indicated under the head of fractures.

## COMPOUND AND COMPLICATED LUXATIONS.

After the reduction of the bones, the treatment in these injuries is identical with that advised in cases of compound and complicated fractures.—It is, therefore, needless to repeat it here.—The remarks relative to the dangers, and question of amputation, in the latter class of accidents, apply very well to the former.

## PARTICULAR LUXATIONS.

### I. INFERIOR MAXILLARY.

*Anatomy of the joint.*

*Liability.*—This accident is common.

*Causes.*—1. Predisposing. 2. Proximate.

(1.) Age, sex, and preternatural elongation of the processus vaginalis.

*Variety.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*



2 - Bleeding - from time of Hippocrates  
employ in a certain way must have the  
patient standing - must have any effect  
if in horizontal position - always takes  
away rapidly - by large orifices -  
to ~~Hot bath~~, most apparent after the  
blood letting where there is no contra-  
indication - redness etc. - Hot bath  
have the rule - Make as hot as he  
can bear -  $110^{\circ}$   $112^{\circ}$  - If not need to  
tobacco, Tart Emetic - does not good  
lets by setting up inflammation in the  
mucous membrane stomach. Emetic  
absolutely necessary to divide the  
tendon muscle etc. - after reduction  
must always keep the parts at rest  
have generally some heat must as joints  
have also inflammation, and great  
pain - good rule to dust and wear to bleed  
a muscular patient after luxation -  
have sometimes rapidly palmar motion  
friction douche warm bath. dressing -  
When complicated take care to put  
on some contrivance that will  
steadily fragments till luxation is  
reduced - (Ankle joint) -

Inf May -

Only one in place liable to luxated  
from absence of strong lig. from being  
muscle -

causes 1<sup>st</sup> age - almost peculiar  
to adult middle age - nearly  
always fracture. E. condition Muscular  
system, some persons peculiar.

2<sup>nd</sup> Proximate. A lower jaw  
by widely open posterior portion of stylohyoid  
and line is formed and strongly sent  
out - fracture at the elbow - fracture at  
process -

Symptoms - Great short mouth turn  
in cheek depression when for fracture sent  
fulness cheek - great secretion Saliva  
where only in condyle - Swell Joint -

Intense pain. Saliva dripping out  
incondensable - Very little difficulty  
sometimes only concern by the  
condyles retaining step - Observe  
thumb and put thumb motion  
towards - and press down with  
and left thumb then slip the thumb  
between, Put the cork in the  
way lower and press head against  
chuck and press strongly against it -  
but may - owing to articulation  
can be large slip - press down jaw  
and hold - Cracking of jaw  
protrusion length of capsule  
is increased by force of person  
owing to chronic inflammation - possible  
cure - cold water from change of  
a strengthening exercise at rest

St Ruedes - Same as in  
fracture -

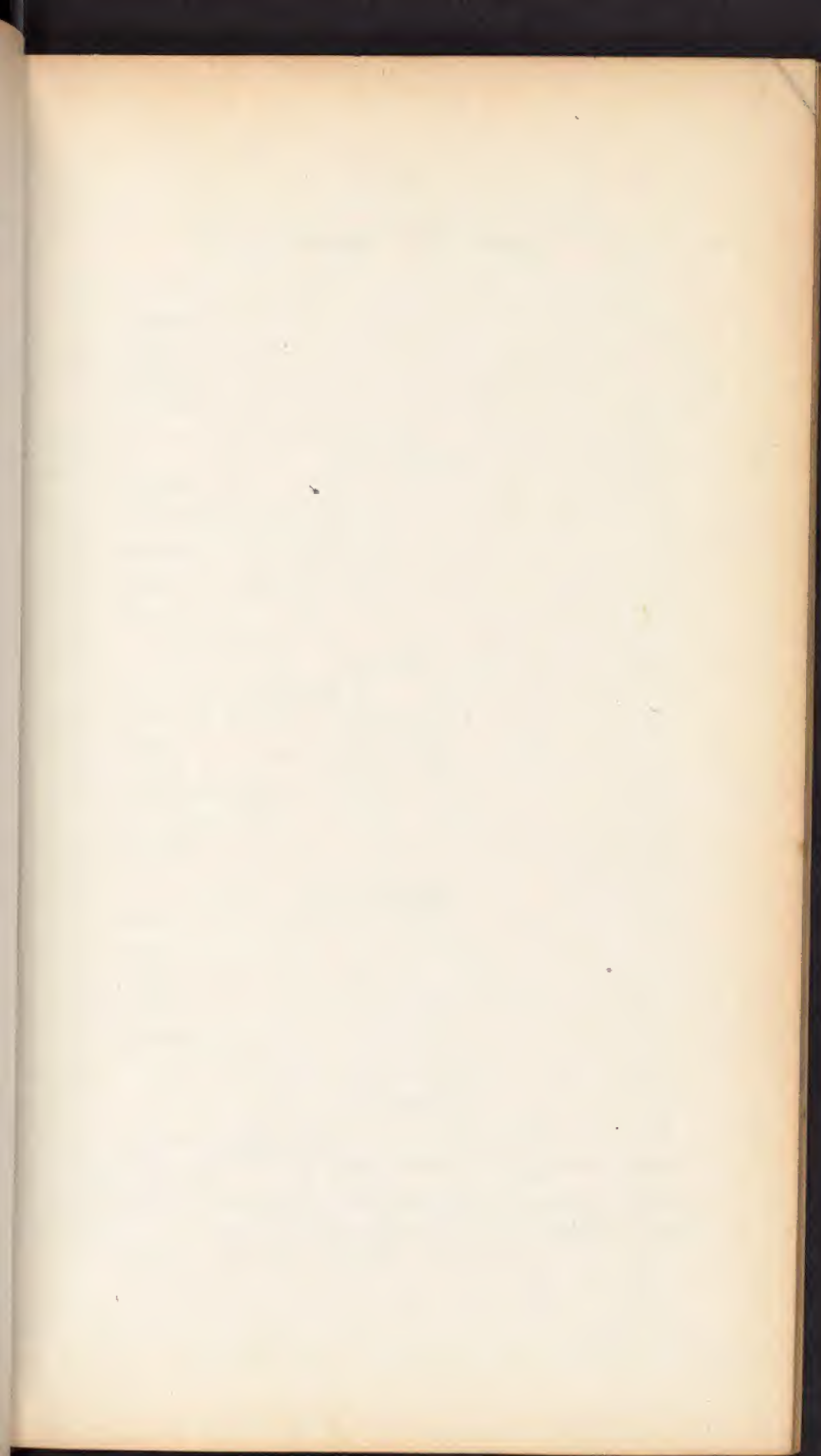
Rebs - easy recognition never  
have injury centre - Rib at rest  
Antiphlogis -

Stemum - Same remarks

Clavicle - from either extremity  
sternal extremity forwards - if should  
brought forwards by wire gone away  
and bone slips out and brought  
against sternum by traction of the  
pectoralis major in front and the  
sacculus does behind. Should be  
shortened pain rapidly lost motion  
and tumor in front. Treat put  
the patient in chair from shoulder up  
by a sheet around chest and give sheet  
to two assist - and then take the  
arm and pull in line of displac -  
and then slips out - if in a  
female deformity very apt be  
guarded in progress - put on  
an app - that will slip - put  
on fracture band and then  
put on McPerry plaster -  
sometimes have sternal deformity











## II. SUB-LUXATION OF THE LOWER JAW.

*Definition.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*

## III. OS HYOIDES.

*Liability.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*

## IV. RIBS.

*Anatomy of the articulations.*

*Liability.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*

## V. STERNUM.

*Liability.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*

## VI. CLAVICLE.

*Anatomy of its articulations.*

*Liability.*—May be luxated at either extremity. The scapular is most frequently displaced.

*Direction of Displacement.*—The sternal extremity may be displaced in three directions:—*forwards, backwards, and upwards.* The scapular is usually thrown *upwards* or *downwards* beneath the acromion process.

I. STERNAL EXTREMITY FORWARDS.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Dissection.*  
*Treatment.*

II. STERNAL EXTREMITY BACKWARDS.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Dissection.*  
*Treatment.*

III. STERNAL EXTREMITY UPWARDS.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Dissection.*  
*Treatment.*

IV. SCAPULAR EXTREMITY UPWARDS.

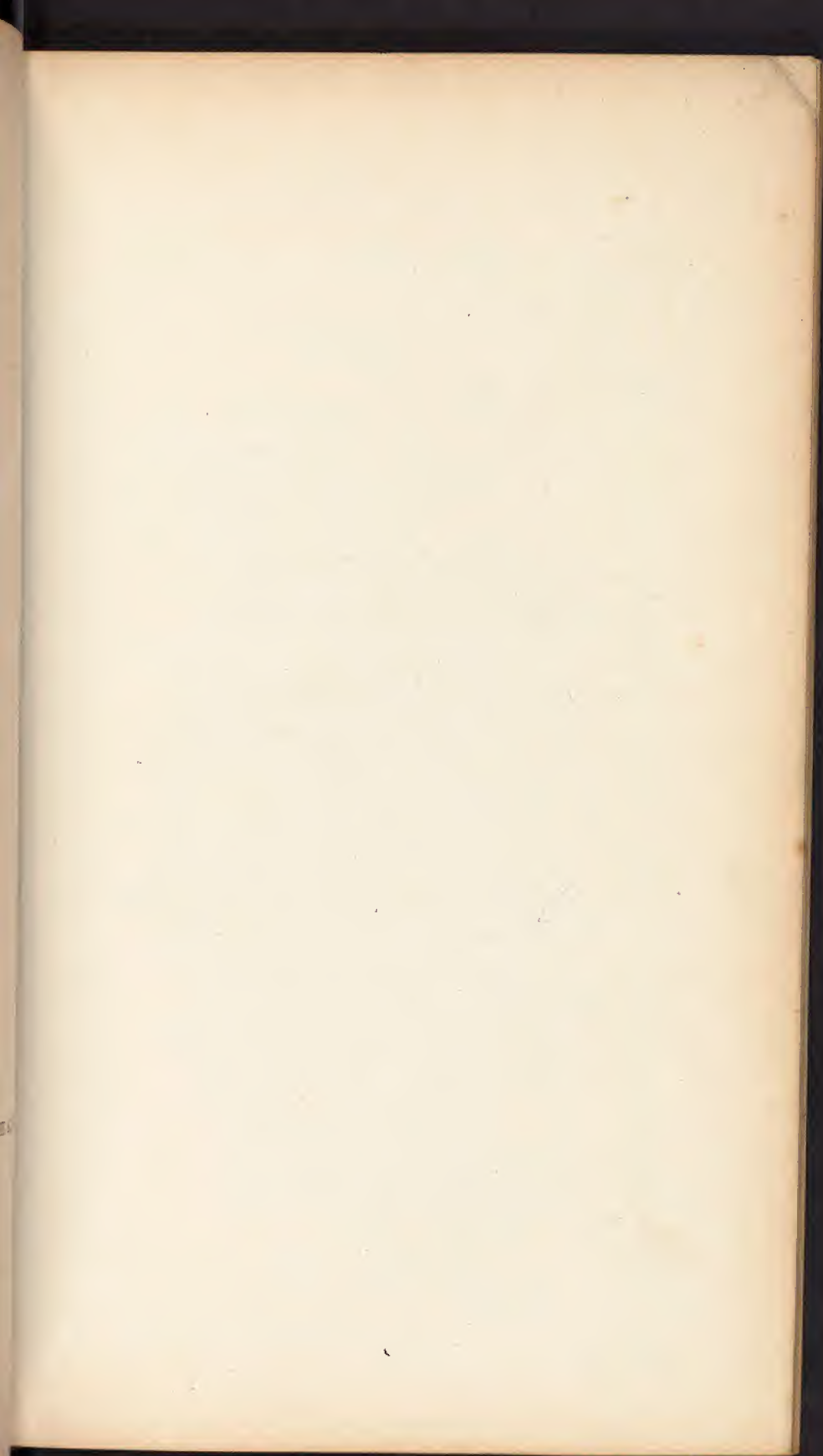
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Dissection.*  
*Treatment.*

V. SCAPULAR EXTREMITY DOWNWARDS.

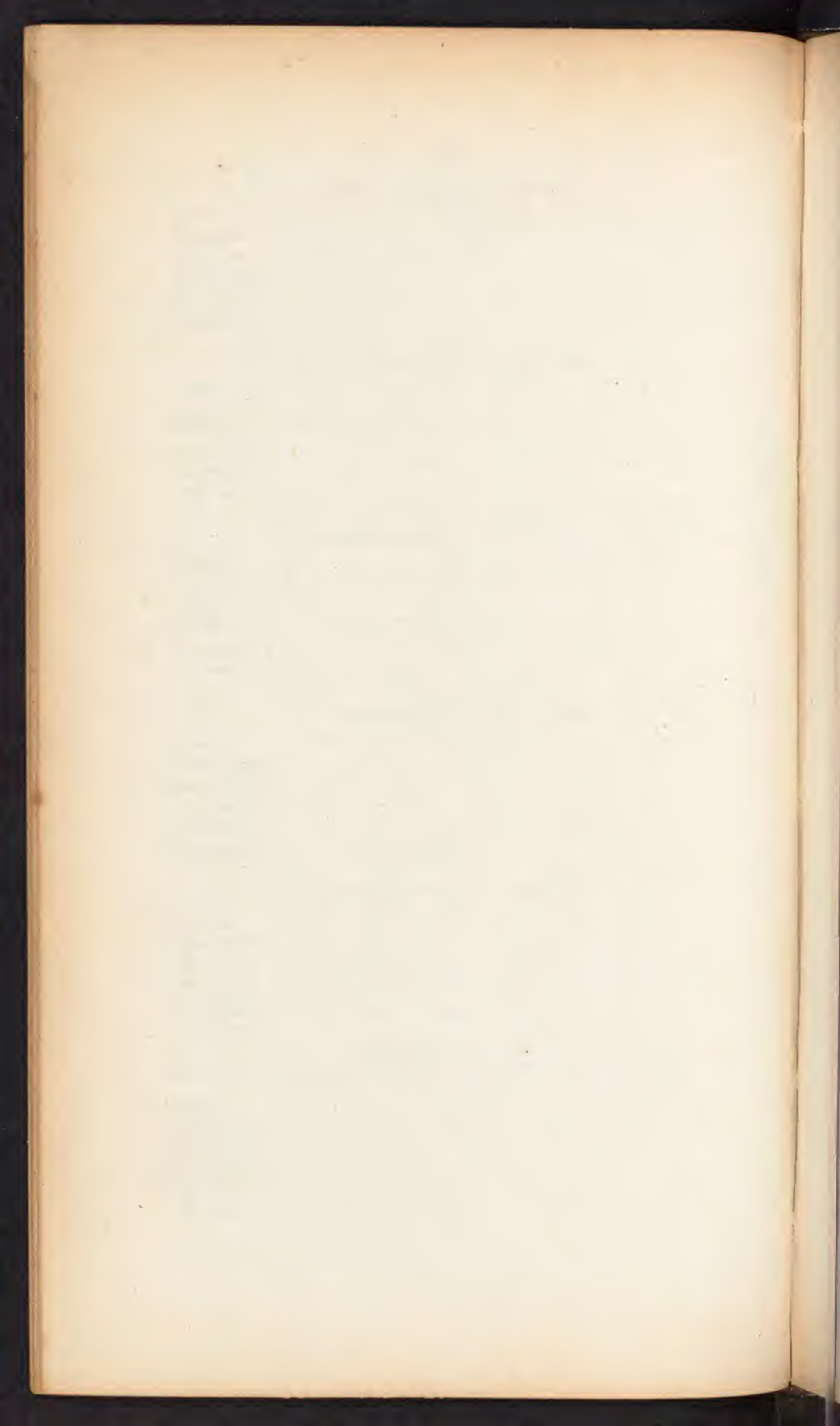
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Dissection.*  
*Treatment.*

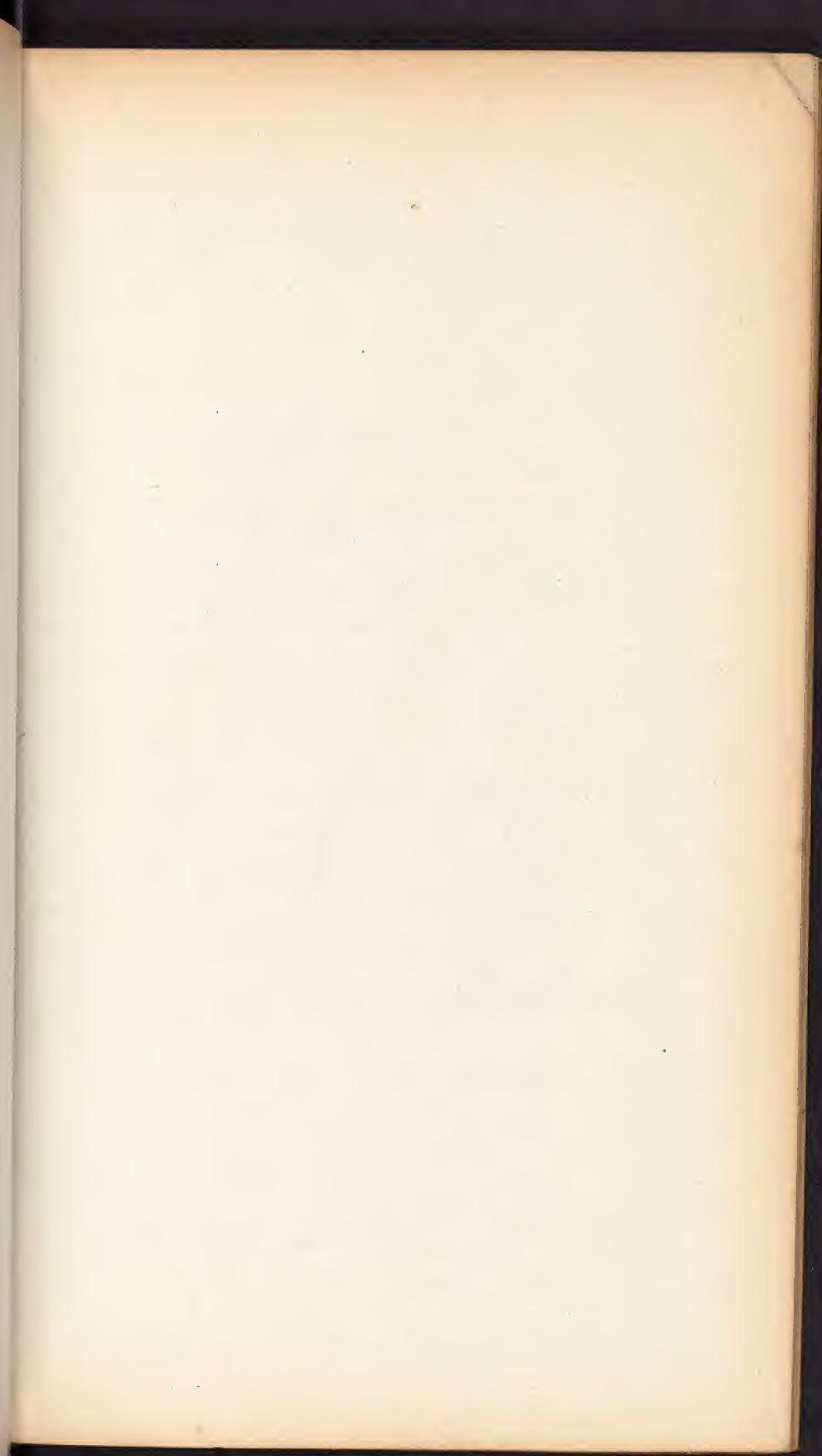
VII. LUXATION OF THE INFERIOR ANGLE OF THE SCAPULA.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Dissection.*  
*Treatment.*



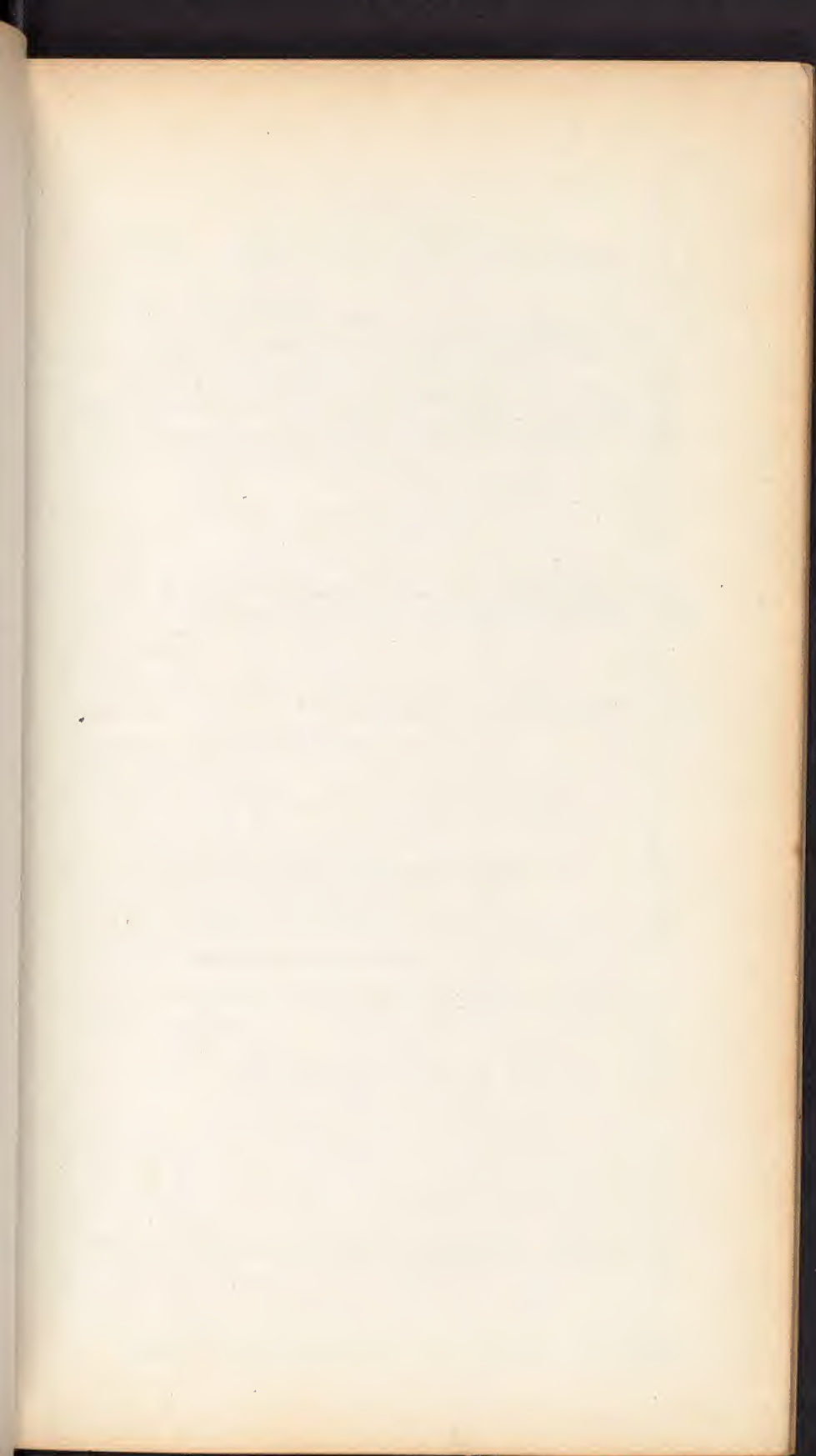


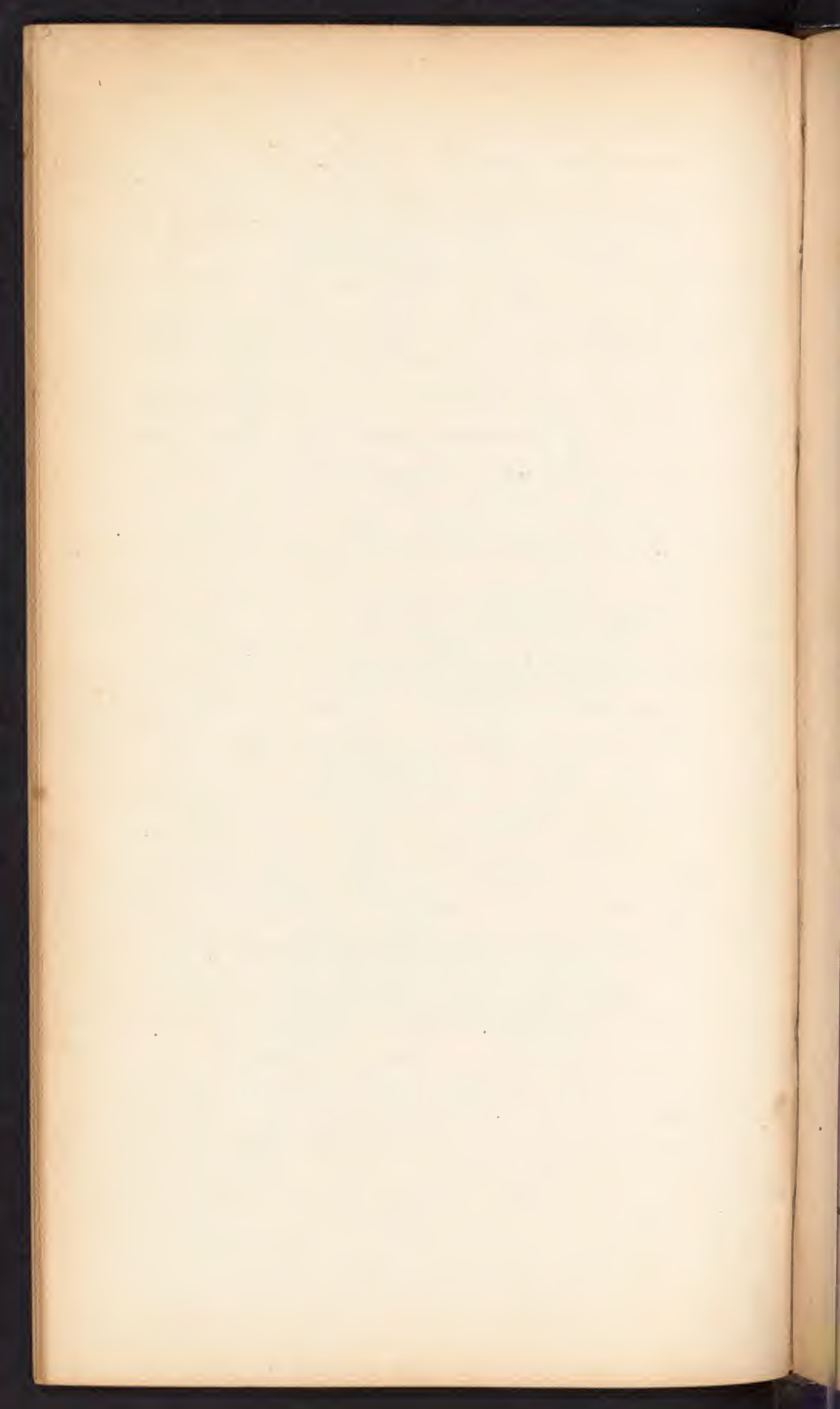












## VIII. LUXATION OF THE HEAD OF THE HUMERUS.

*Anatomy of articulation.*

*Liability.*—Very great, from the small size of the articulating surface; the weakness of its ligaments; the freedom of its motions; its constant exposure; and from its subjection to the influence of several muscles.

*Direction of displacement.*—Downwards, forwards, backwards, and partially upwards and forwards. Displacement directly upwards, to any extent, cannot occur without fracture of the acromion. Explain the *intercostal* and *thoracic* luxations mentioned by Larrey and Percy.

## I. DOWNWARD LUXATION.

*Causes.**Symptoms.*

*Diagnosis.*—May be confounded with fracture of cervix scapulæ, fracture of the neck of humerus, bruises, paralysis of the muscles, and dislocation of the biceps tendon.

*Prognosis.**Dissection.*

*Complications.*—Great swelling; emphysema; inflammation; paralysis of muscles.

*Treatment.*—General indications.

- a. Fix the scapula.
- b. Relax the muscles.
- c. Draw the head of the bone to its cavity.

*General methods.*

- a. Simple elevation of the arm.
- b. Lifting the head of the bone while the arm is abducted.
- c. Mothe's plan, or rather, Mr. White's.
- d. Extension with heel in the axilla.
- e. Pullies and bands.
- f. Reducing apparatus of different kinds.
- g. Myodiatomy.

It may be necessary to use *constitutional* remedies in combination with either of these plans.

## II. FORWARD LUXATION.

*Causes.**Symptoms.**Diagnosis.**Prognosis.**Dissection.**Complications.*

*Treatment.*—Reduce to the first, and then employ the means already indicated.



### III. BACKWARD LUXATION.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Complications.*

*Treatment.*—Reduce to the first, and then employ the measures already pointed out as efficient in the reduction of the former.

### IV. PARTIAL, OR SUBLUXATION.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*

### V. DISLOCATION OF THE BICEPS TENDON.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*

### IX. LUXATION AT THE ELBOW JOINT.

*Anatomy of the joint.*

*Liability.*

*Direction of displacement.*—Backwards and upwards of both bones; lateral of both bones; forwards of both bones; forwards of the head of the radius; backwards of the head of the radius; imperfect luxation of the head of the radius; upwards of the superior extremity of the ulna.

#### I. BACKWARDS AND UPWARDS OF BOTH BONES.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*

#### II. LATERAL DISPLACEMENT.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*

## Luxation at Elbow Joint

1. By falls on hand when arm in state of flex. forearm shortened flexed, tumor before and behind - rigidity and tenderness of Brachialis ant. and Q. Flex. muscles which resist efforts to reduce if called immediately possible but if some time has elapsed rendering setting in almost impossible. To reduce paralysis of muscles by pulling in line by displace - where they fail resort to pulley -

Dislocation of Radius on end of Humerus and fracture of Elbow Joint set Extend forearm on arm and put on same splint that is used in fracture of Fore Arm -

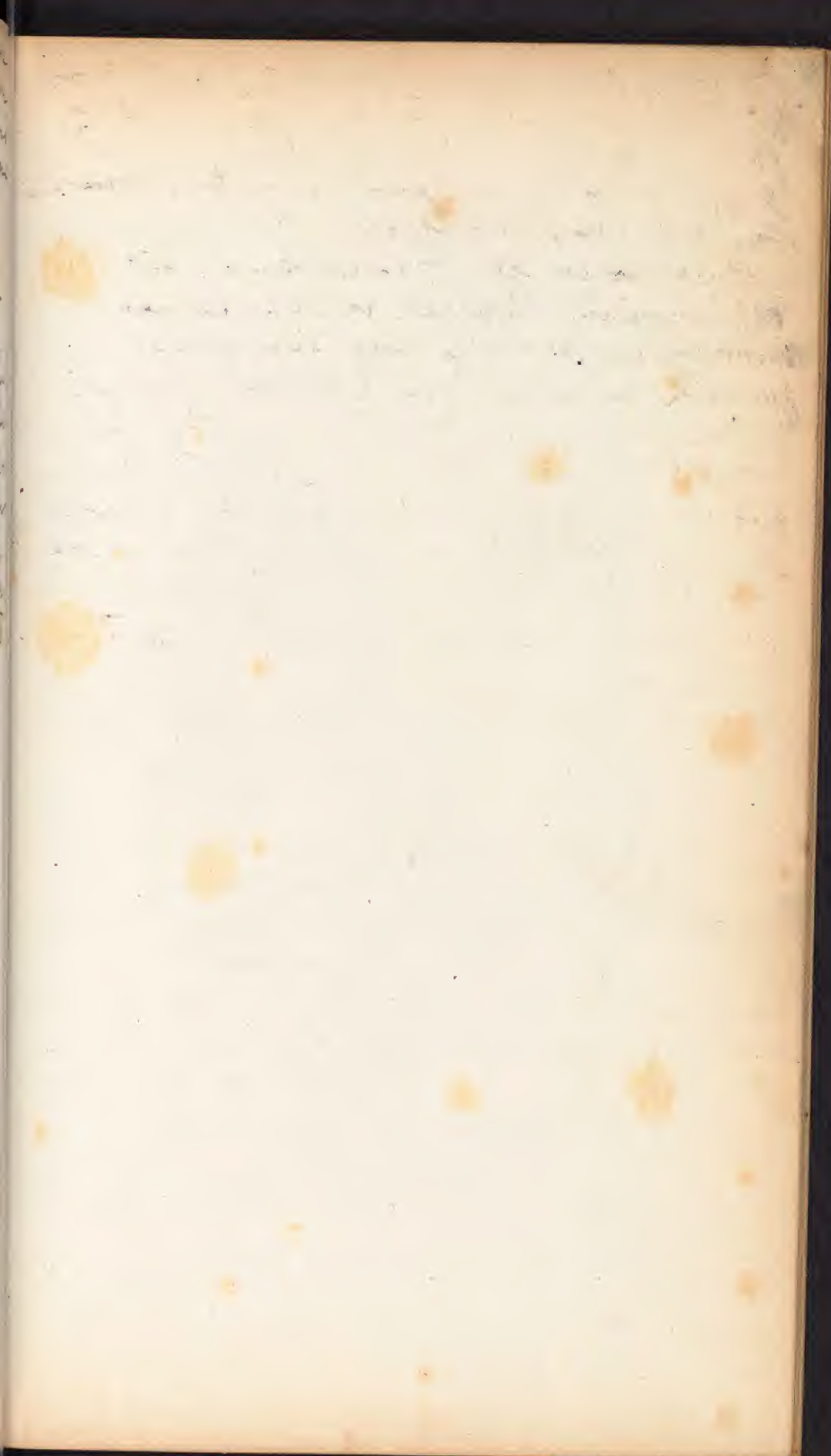
Upper End of Radius forward and backward - backward lux supports to be great no - Back head thrown out and back by muscular action - or by fall - the intussusceptions lay on - as the hand rigidly prone - rotate hand and can feel the tumor on condyle rotate - to reduce flex fore arm - put finger on tumor pull in line of displace then pushing tumor with thumb



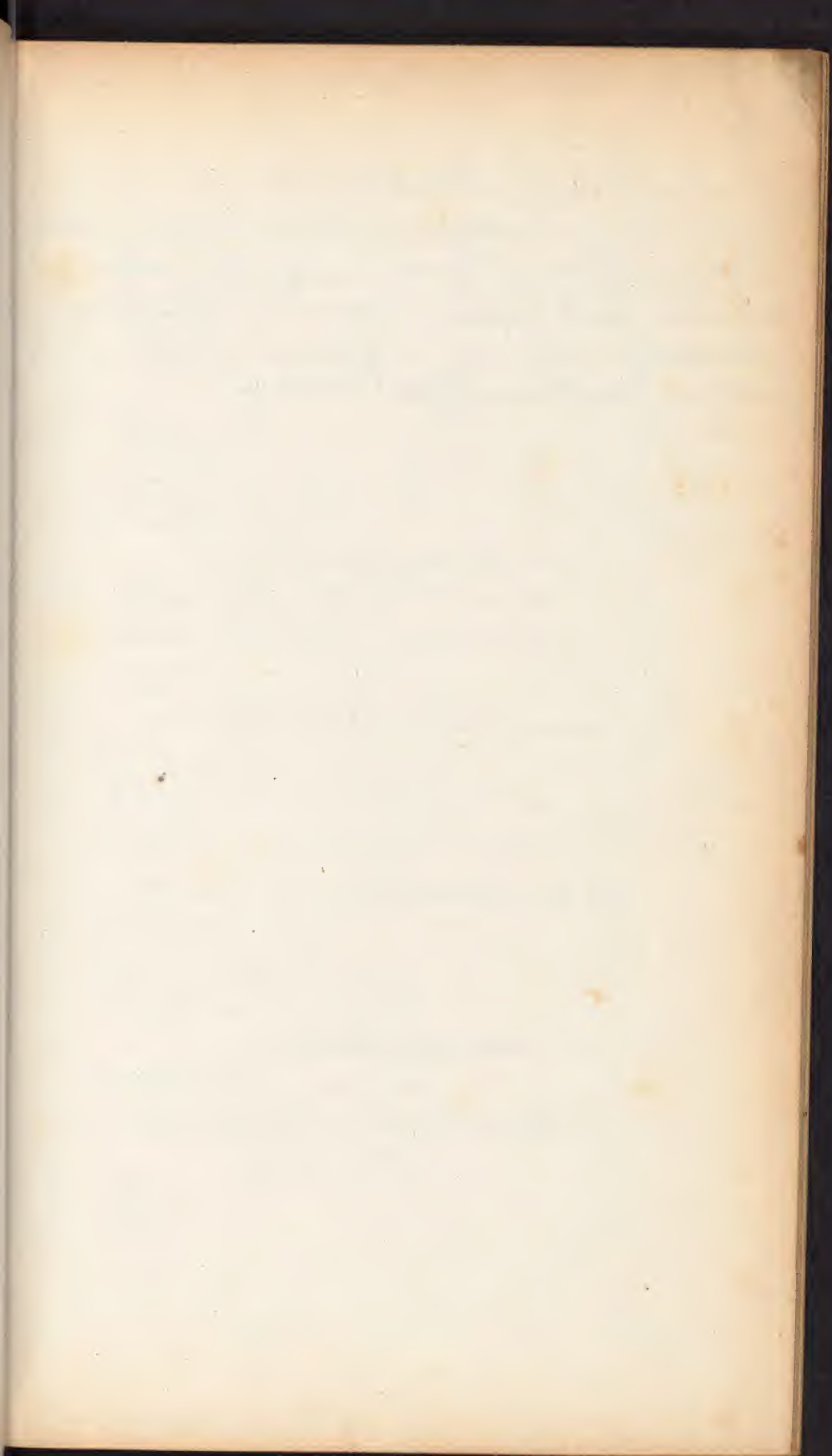
and turn the hand around Dupuy-  
tre's forwards - the ulnar or  
fore part of condyle - and  
hand is supine - to reduce  
much more difficult.

Backward of ulna - the  
deformity. Very peculiar -  
the radius stationary inside of  
forearm shortened hand points  
towards body - Making extension  
counter extension - lifting with  
act 4. Subluxation of head  
of head radius by interlocking  
two bones - Bring hand into proper  
position and press down head  
of radius.





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Luxations of Wrist Joint -  
Extension in line of displace  
Separate bones from in natural  
position and replace hand. Constant  
danger of recurring again - and  
exercise caution patient -

III. FORWARD DISPLACEMENT.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Dissection.*  
*Treatment.*

IV. FORWARDS OF THE HEAD OF THE RADIUS.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Dissection.*  
*Treatment.*

V. BACKWARDS OF THE HEAD OF THE RADIUS.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Dissection.*  
*Treatment.*

VI. IMPERFECT LUXATION OF THE HEAD OF THE RADIUS.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Dissection.*  
*Treatment.*

VII. LUXATION OF THE SUPERIOR EXTREMITY OF THE ULNA.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Dissection.*  
*Treatment.*

X. LUXATION OF THE WRIST.

*Anatomy of joint.*  
*Liability.*  
*Direction of displacement.*—Backwards, forwards, and laterally.

I. BACKWARDS.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Dissection.*  
*Treatment.*

II. FORWARDS.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Dissection.*  
*Treatment.*

III. LATERAL.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Dissection.*  
*Treatment.*

IV. LUXATION OF THE LOWER EXTREMITY OF THE ULNA.

*Causes.*  
*Varieties.*—Backwards and forwards.  
*Symptoms* of each.  
*Diagnosis.*  
*Prognosis.*  
*Dissection.*  
*Treatment.*

XI. LUXATION OF CARPAL BONES.

*Anatomy of joint.*  
*Liability.*  
*Direction of displacement.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Dissection.*  
*Treatment.*

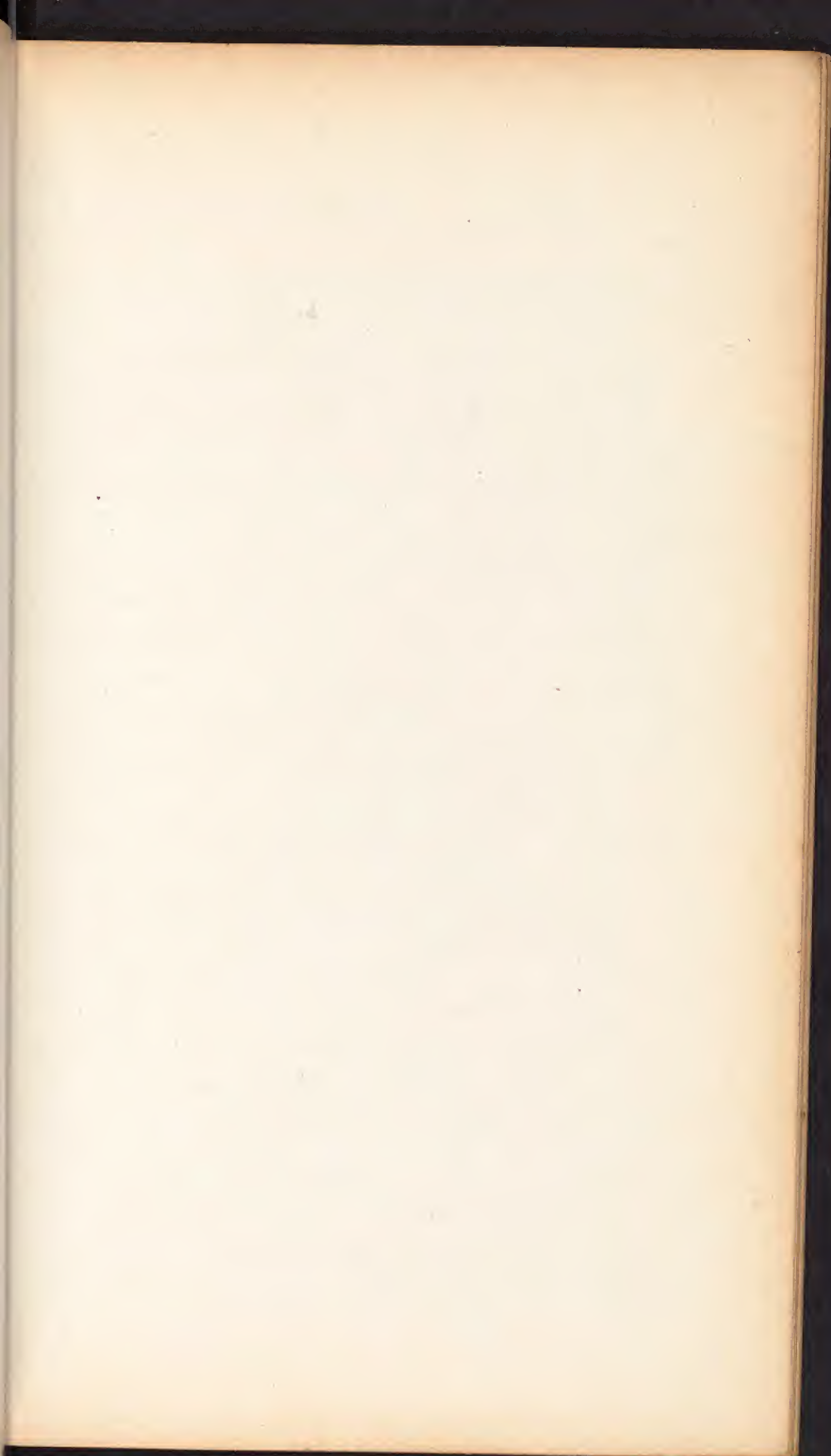
XII. LUXATION OF METACARPAL BONES.

*Anatomy of these joints.*  
*Liability.*—The first is usually the only one displaced.  
*Direction of displacement.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Dissection.*  
*Treatment.*



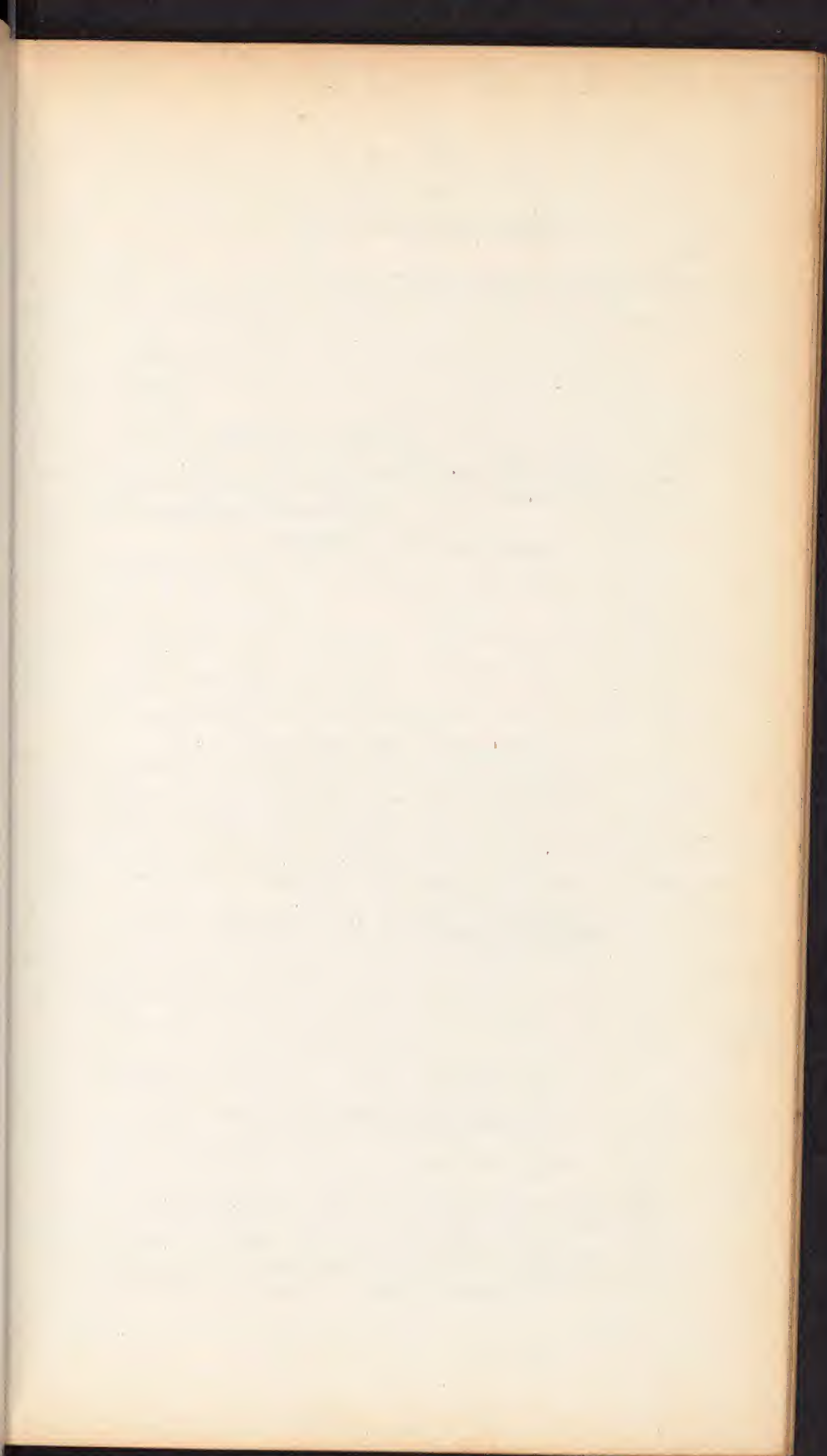
Luxation of Carpal bones - will  
sometimes confound the diagnosis of luxation  
of lower extremity of the Ulna - the pisiform  
bone being broken off -















### XIII. LUXATION OF PHALANGES.

*Anatomy of these joints.*

*Liability.*—All may be luxated, but usually the first of the thumb is most liable.

*Direction of displacement.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*—Difficulties to be overcome are, 1. Shape of the bone. 2. Binding of ligaments. 3. Interposition of anterior ligaments. (Vidal and Pailleux.) 4. Interposition of sesamoid bones. (Lawrie.) 5. Want of leverage. Manner of overcoming these difficulties explained.

### XIV. LUXATION OF THE SACRUM.

*Anatomy of joint.*

*Liability.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*

### XV. LUXATION OF THE OSSA INNOMINATA.

*Liability.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*

### XVI. RELAXATION OF THE PELVIC SYMPHYSES.

*Liability.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*

### XVII. LUXATION OF THE FEMUR.

*Importance.*

*Anatomy of the joint.*

*Liability.*

*Direction of displacement.*—The head of the bone may be displaced upwards in three directions, and downwards in three directions, viz.: upwards and forwards upon the dorsum ilii; upwards and forwards upon the ossa pubis; directly upwards; downwards, and backwards in the upper ischiatic notch; downwards and forwards into the foramen ovale; directly downwards.

I. UPWARDS AND BACKWARDS.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*—General indications.

a. Fix the pelvis.

b. Draw the head of the bone towards its cavity.

c. Make use of the different muscles to assist in the reduction.

d. Employ constitutional remedies to relax the muscles.

General methods.

a. Bands and pullies.

b. Apparatus.

II. UPWARDS AND FORWARDS ON THE OSSA PUBIS.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*—General indications are the same as in the first variety. The general methods are also the same, but we must vary the direction of our forces.

III. DIRECTLY UPWARDS. (VERY RARE.)

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*—The same indications to be observed as above, but vary the direction of the forces to suit the case.

IV. BACKWARDS AND SLIGHTLY DOWNWARDS.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*—General indications the same as above, but the direction of the forces must be varied.

V. FORWARDS AND DOWNWARDS.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

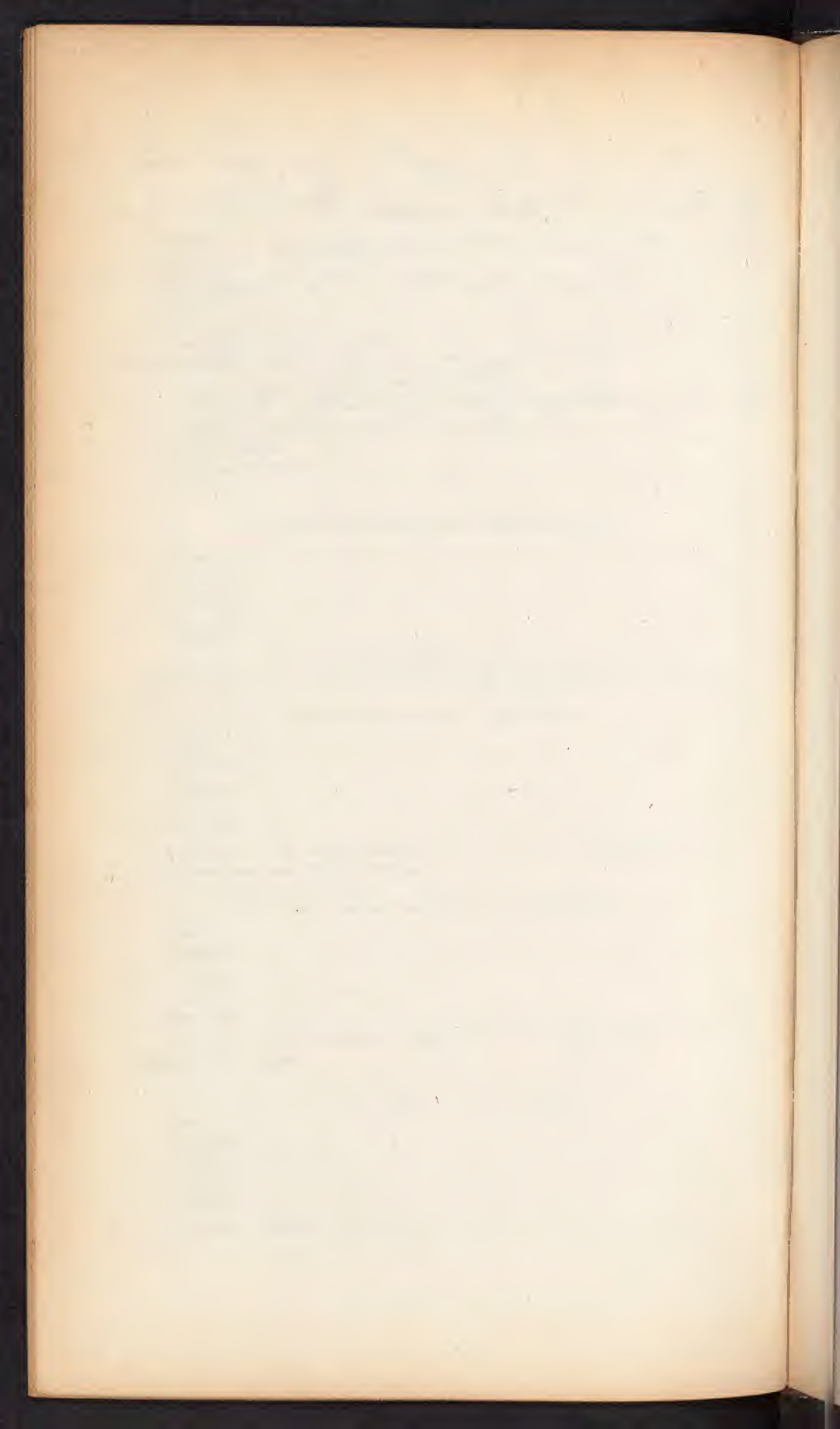
*Treatment.*—General indications still the same, but the process must be varied.

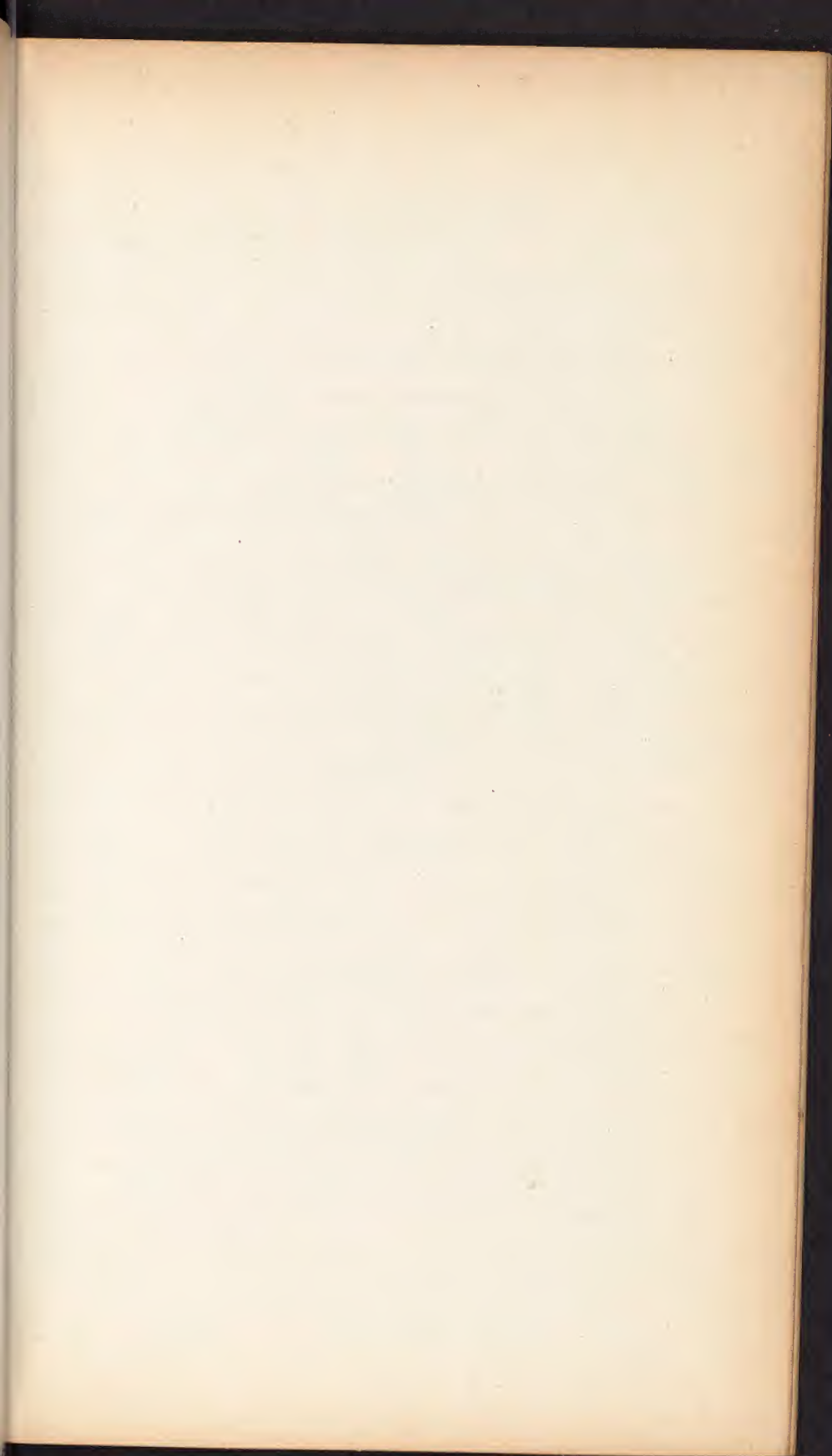
Do this by drawing leg forward when feet  
the head slipping - and thus throws it  
into the cavity of the acet -

Direct up simple extension and  
counter -

W. - knowing of him no extension  
too long already - & Lake 1.

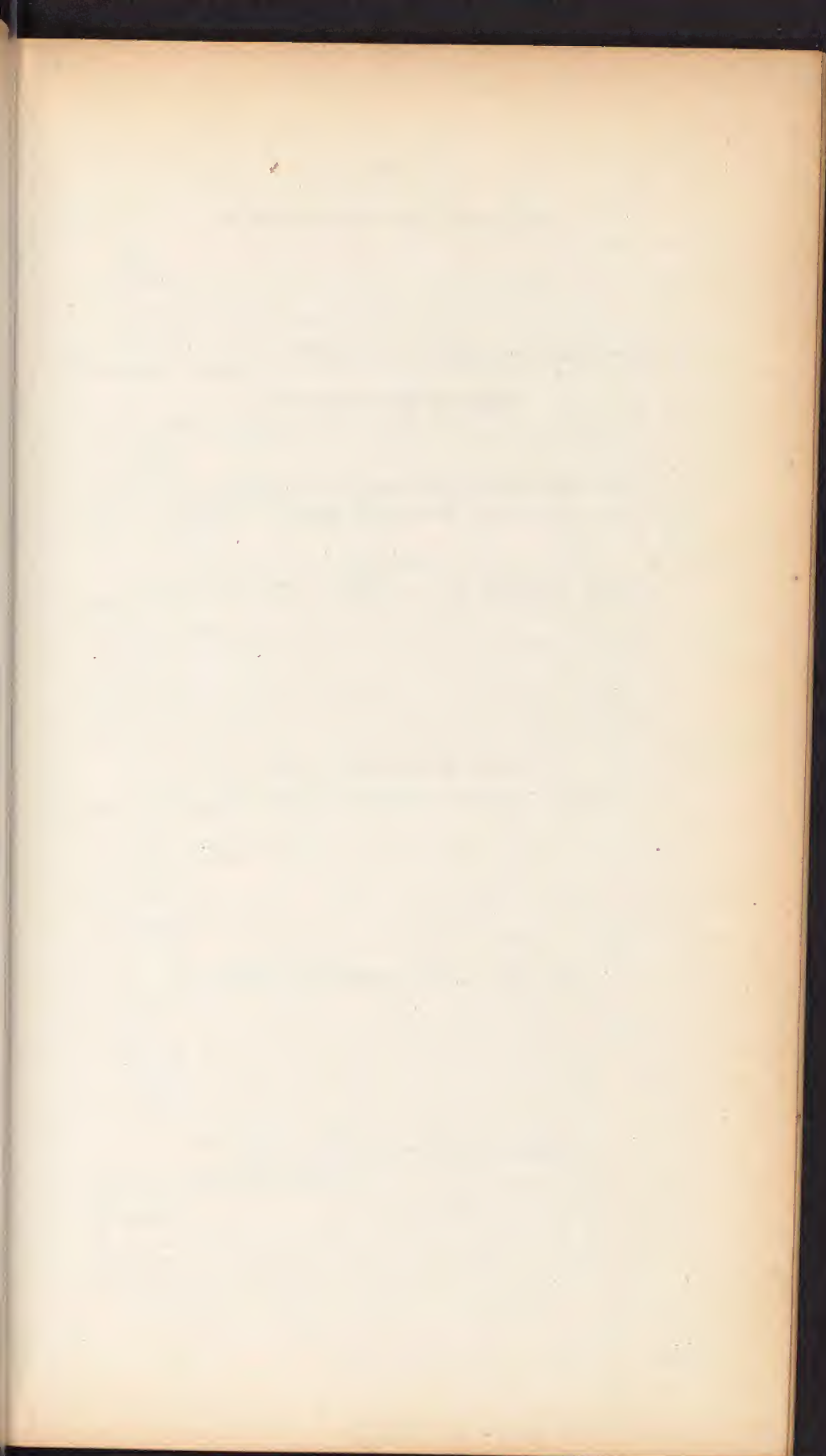


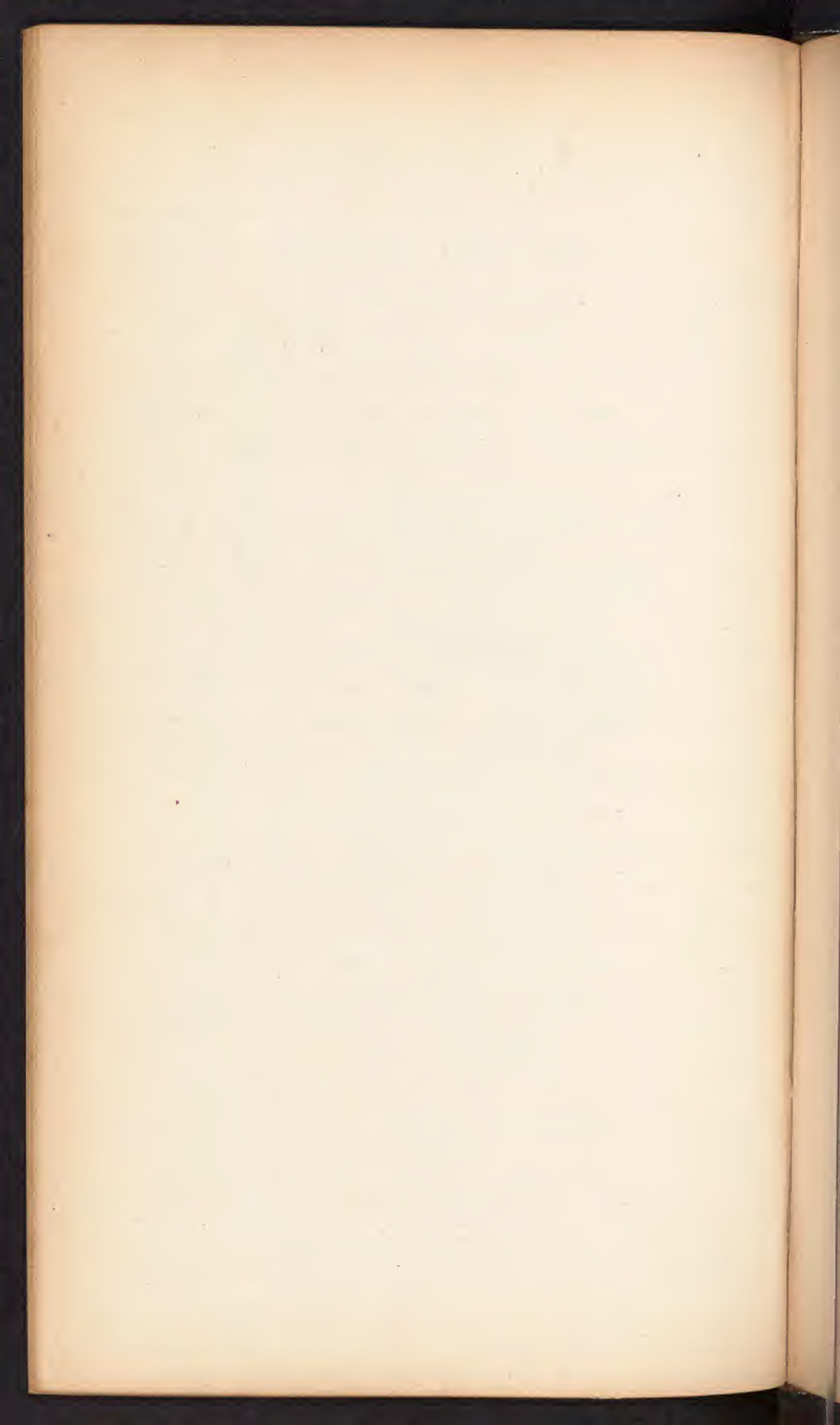












VI. DIRECTLY DOWNWARDS. (VERY RARE.)

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*—General indications still the same, but we must modify our forces to suit the case.

XVIII. LUXATION OF KNEE.

*Importance.*

*Anatomy of the joint.*

*Liability.*

*Direction of displacement.*—To render these luxations more clear to the student it will be well to consider those of each constituent of the joint, and first of those of the

I. PATELLA.

*Varieties.*—1. Outwards; 2. Inwards; 3. On its axis; 4. Upwards; 5. Downwards.

*Causes of each.*

*Symptoms of each.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*

II. LUXATION OF THE HEAD OF THE TIBIA.

*Varieties.*—1. Backwards; 2. Forwards; 3. Outwards; 4. Inwards; 5. Subluxation or twist.

*Causes.*

*Symptoms of each.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*

III. INTERNAL DERANGEMENT OF THE KNEE JOINT.

*Definition.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

IV. SUBLUXATION FROM LENGTH OF LIGAMENTS.

*Causes.*—*Congenital or acquired.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*



V. LUXATION OF THE HEAD OF THE FIBULA.

*Varieties.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Dissection.*  
*Treatment.*

XIX. LUXATIONS OF THE ANKLE JOINT.

*Importance.*  
*Anatomy of the joint.*  
*Liability.*  
*Direction of displacement.*—Inwards; Outwards; Forwards; Backwards.

I. INWARDS.

*Causes.*  
*Complications*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Dissection.*  
*Treatment.*

II. OUTWARDS.

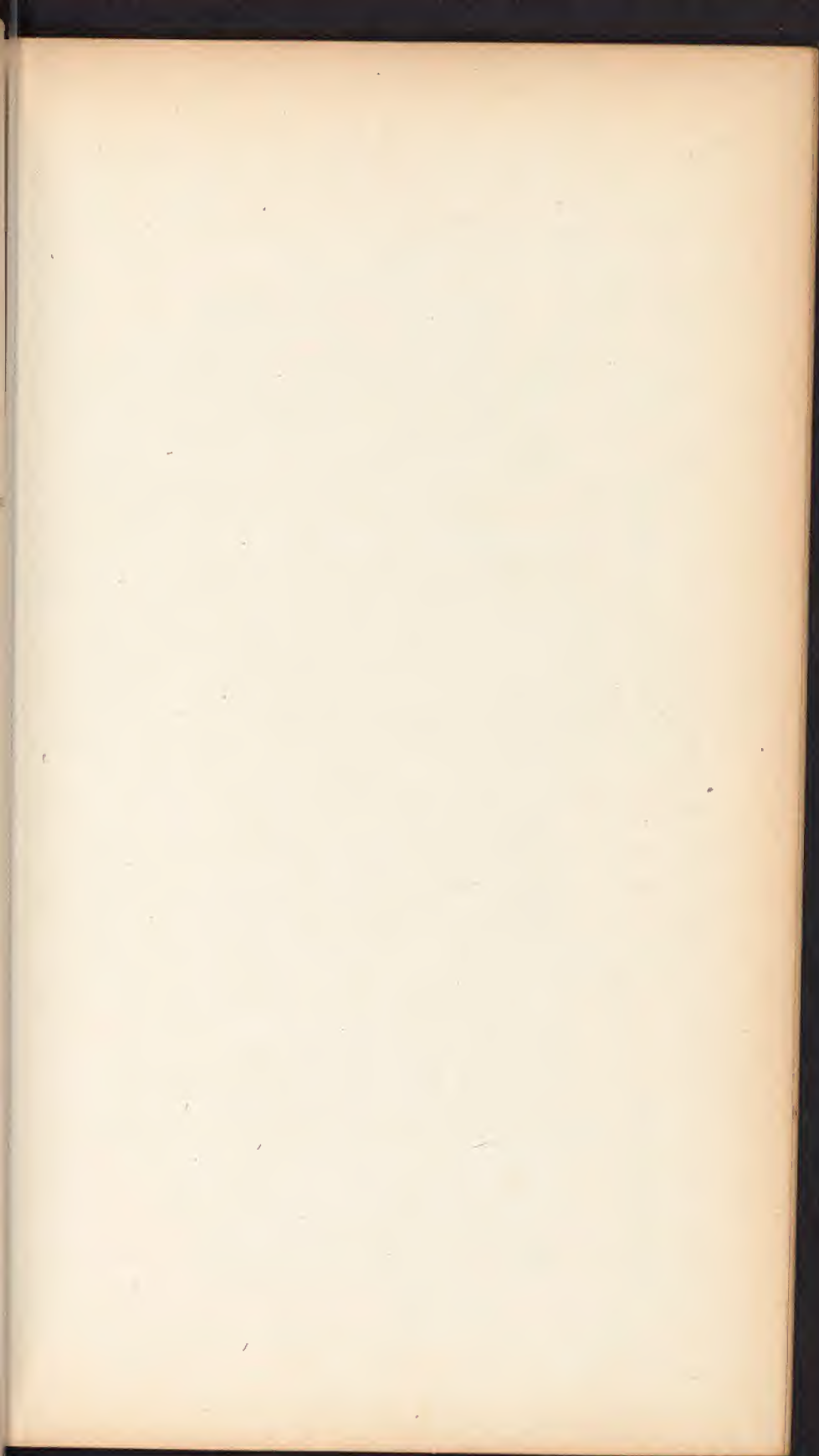
*Causes.*  
*Complications.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Dissection.*  
*Treatment.*

III. FORWARDS.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Dissection.*  
*Treatment.*

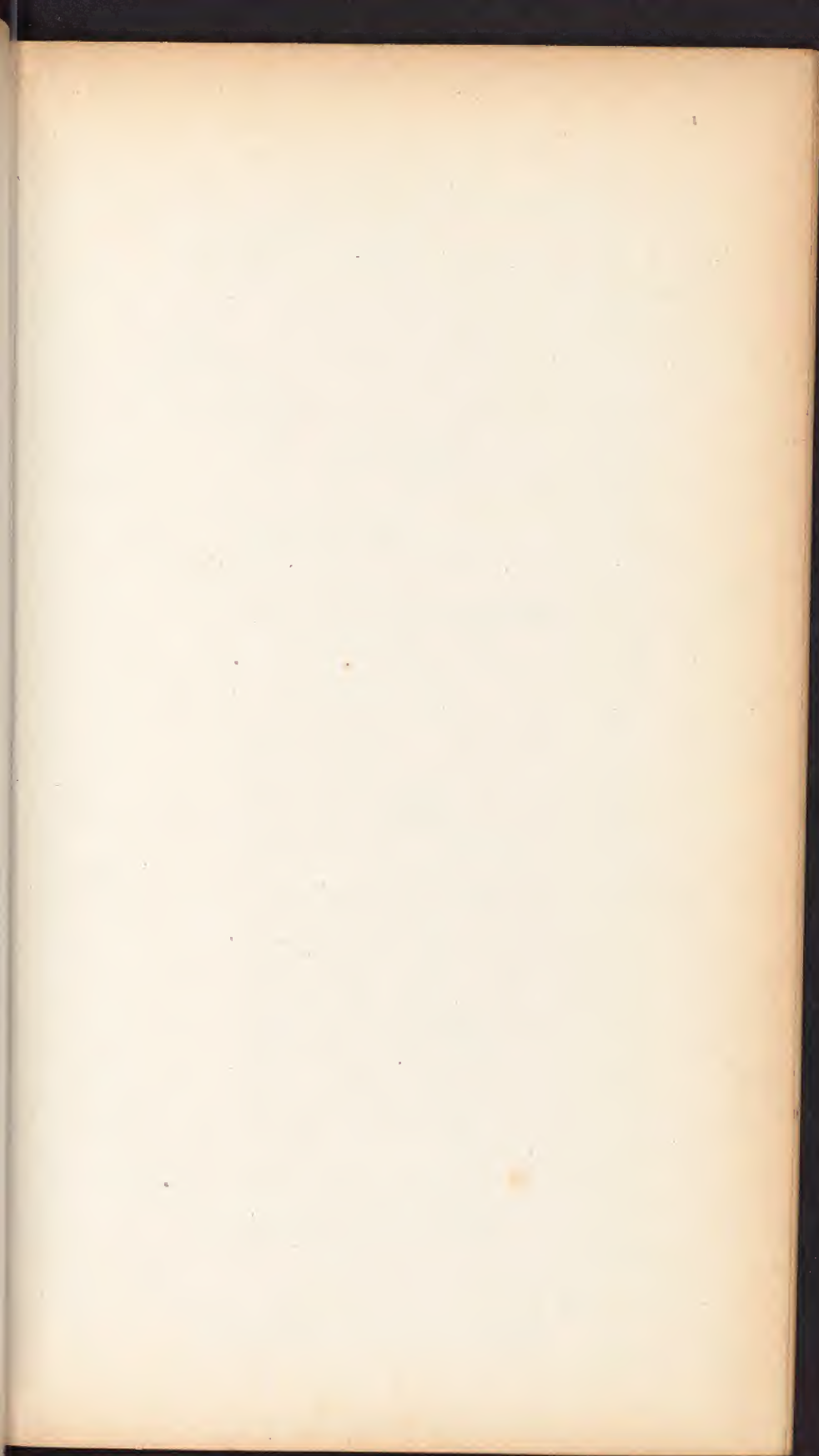
IV. BACKWARDS.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Dissection.*  
*Treatment.*

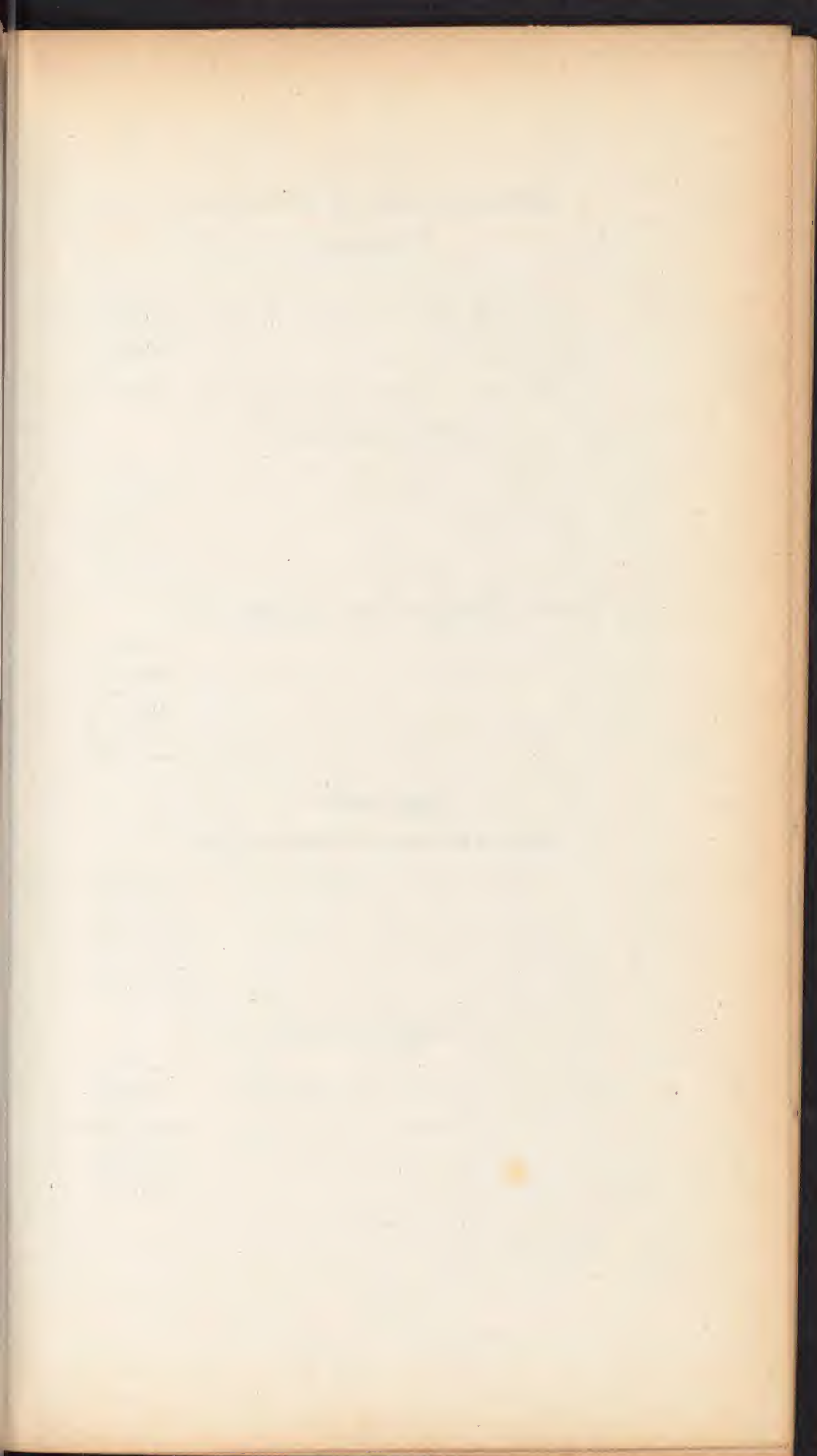




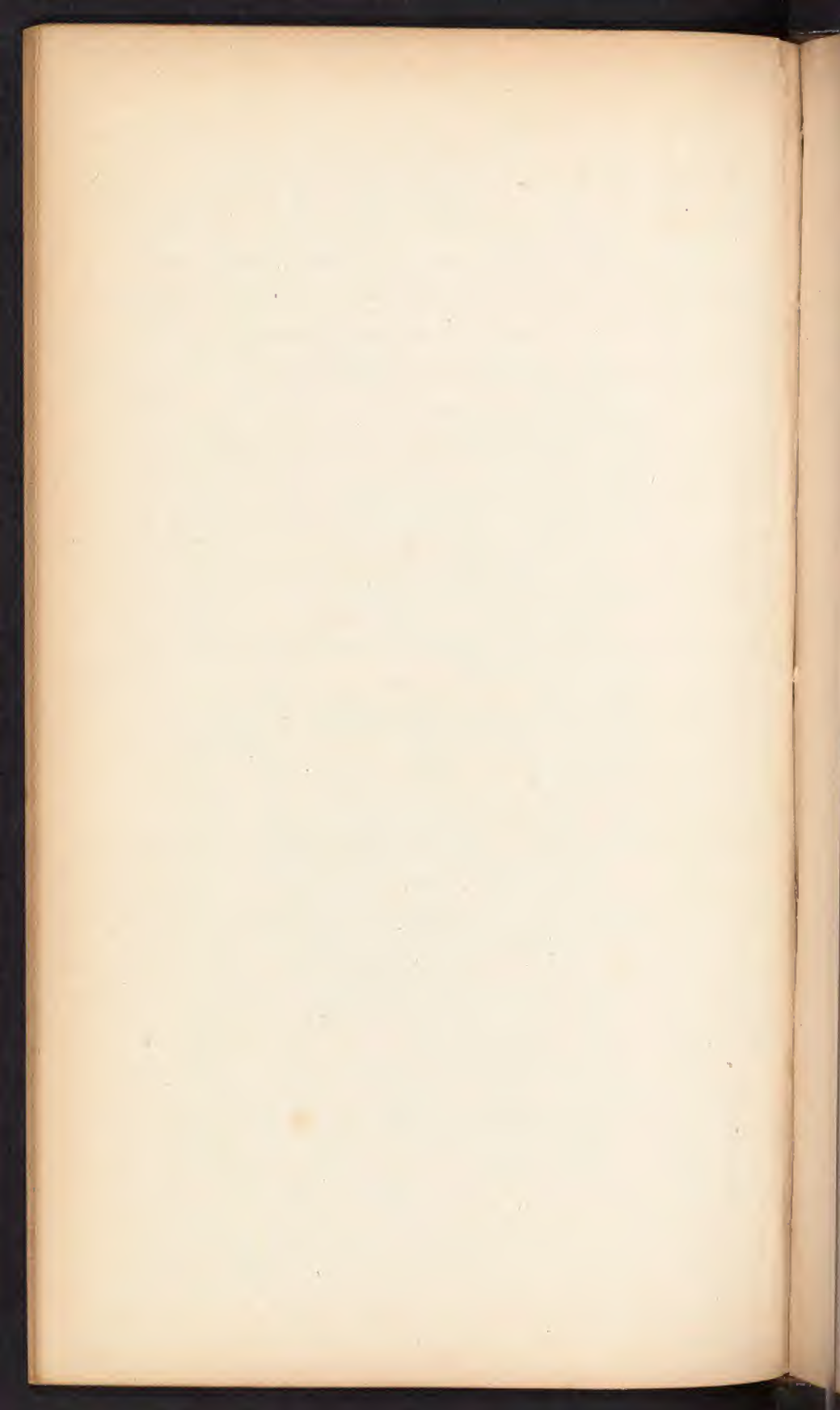












XX. LUXATION OF THE TARSAL BONES.

I. ASTRAGALUS.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*

II. THE CUNEIFORM, ETC.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*

XXI. LUXATION OF THE METATARSAL BONES.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*

*Eighth Head.*

XXII. LUXATION OF THE PHALANGES.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*

CONGENITAL LUXATION.

*Definition.*

*Varieties.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

---

### III. DISEASES OF THE FIBROUS SYSTEM.

Some of the affections of this system have been included under the diseases of the joints; for example, Desmodia, and Desmectasis: others belong more particularly to the practice of medicine than to surgery, as rheumatism, &c. The diseases usually considered as strictly surgical are—

#### I. PERIOSTITIS.

*Definition.*

*Varieties.*—1. Acute. 2. Chronic.

*Causes.*—1. Local. 2. Constitutional.

First, or local:

a. Contusions.

b. Punctures.

c. Incisions.

d. Extension of inflammation from diseased organs in the vicinity.

Second, or constitutional:

a. Syphilis.

b. Excessive use of mercury.

c. Scrofula.

d. Cold.

*Symptoms.*—1. Local. 2. Constitutional.

*Diagnosis.*—May be confounded with ostitis, caries, necrosis, rheumatism, or gout.

*Prognosis.*—Varies in different cases. Usually the cure is tedious; it may nevertheless be considered a very curable disease.

*Dissection.*—The post-mortem appearances depend on the intensity and duration of the attack.

*Terminations.*—Resolution, suppuration, effusion of lymph; inflammation, caries or necrosis of the subjacent bone; conversion of the membrane into cartilage or bone.

*Treatment.*—The remedies are divided into *general* and *local*. Both are modified by the circumstances of the case.

First, or general.

1. Bloodletting.

2. Active purgation.

3. Low diet.

4. Mercurials.

5. Preparations of iodine, especially the iodide of potassium.

6. Decoctions of the woods.

Second, or local.

1. Leeches.

2. Free incisions.

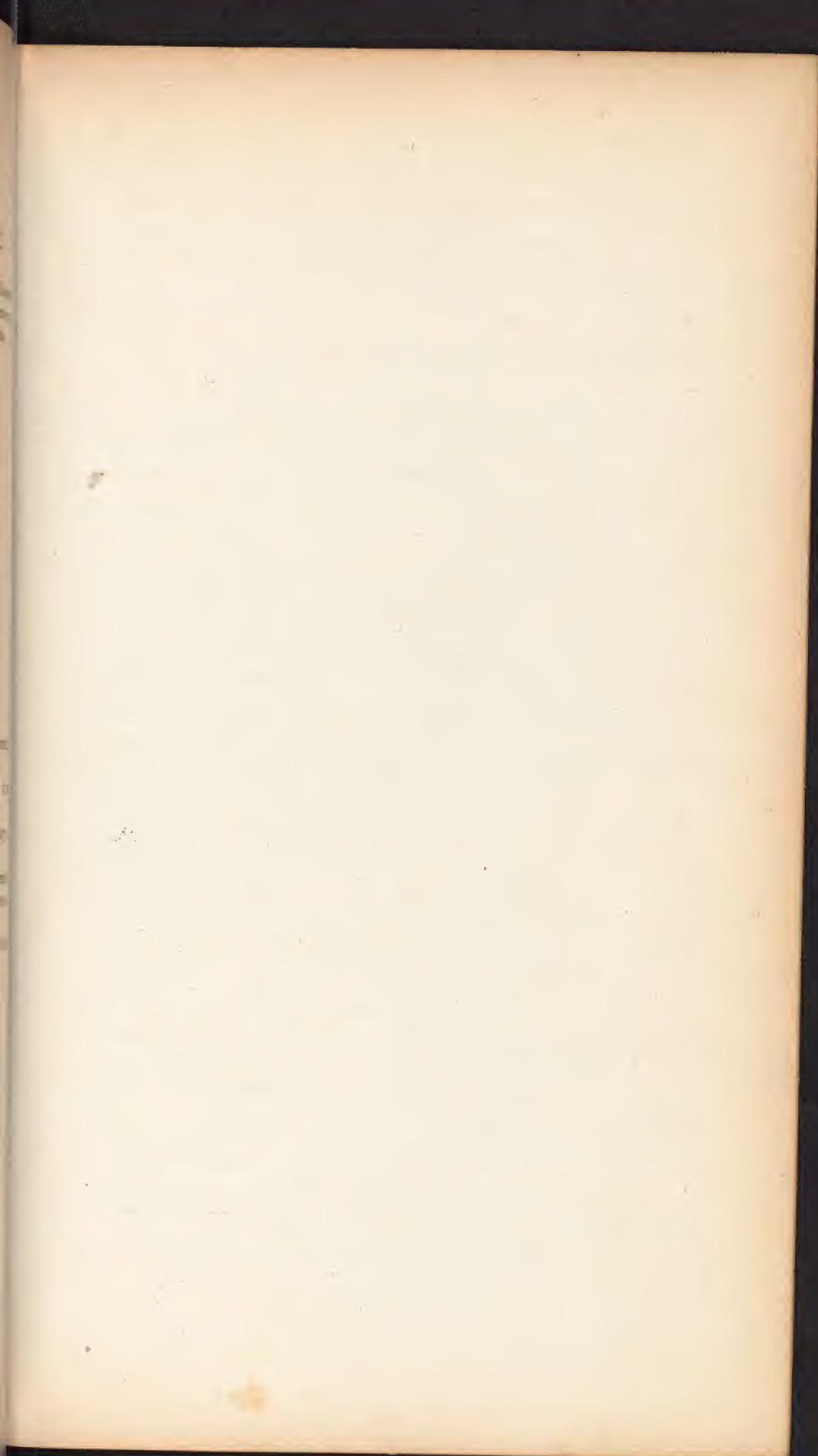
3. Poultices and fomentations.

4. Blisters.

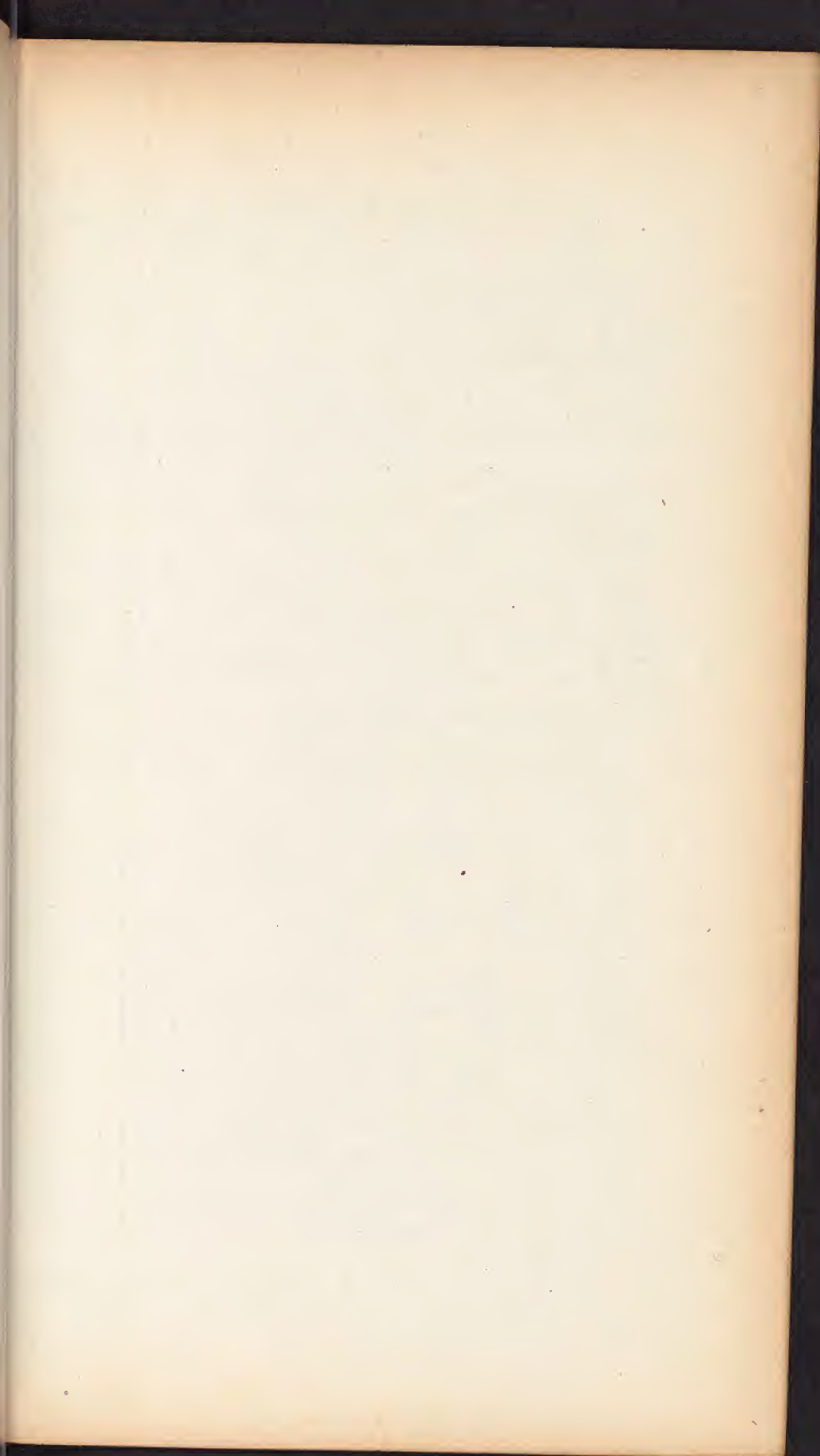
5. Iodine, or mercurial frictions.

6. Wool and oil-silk dressing.



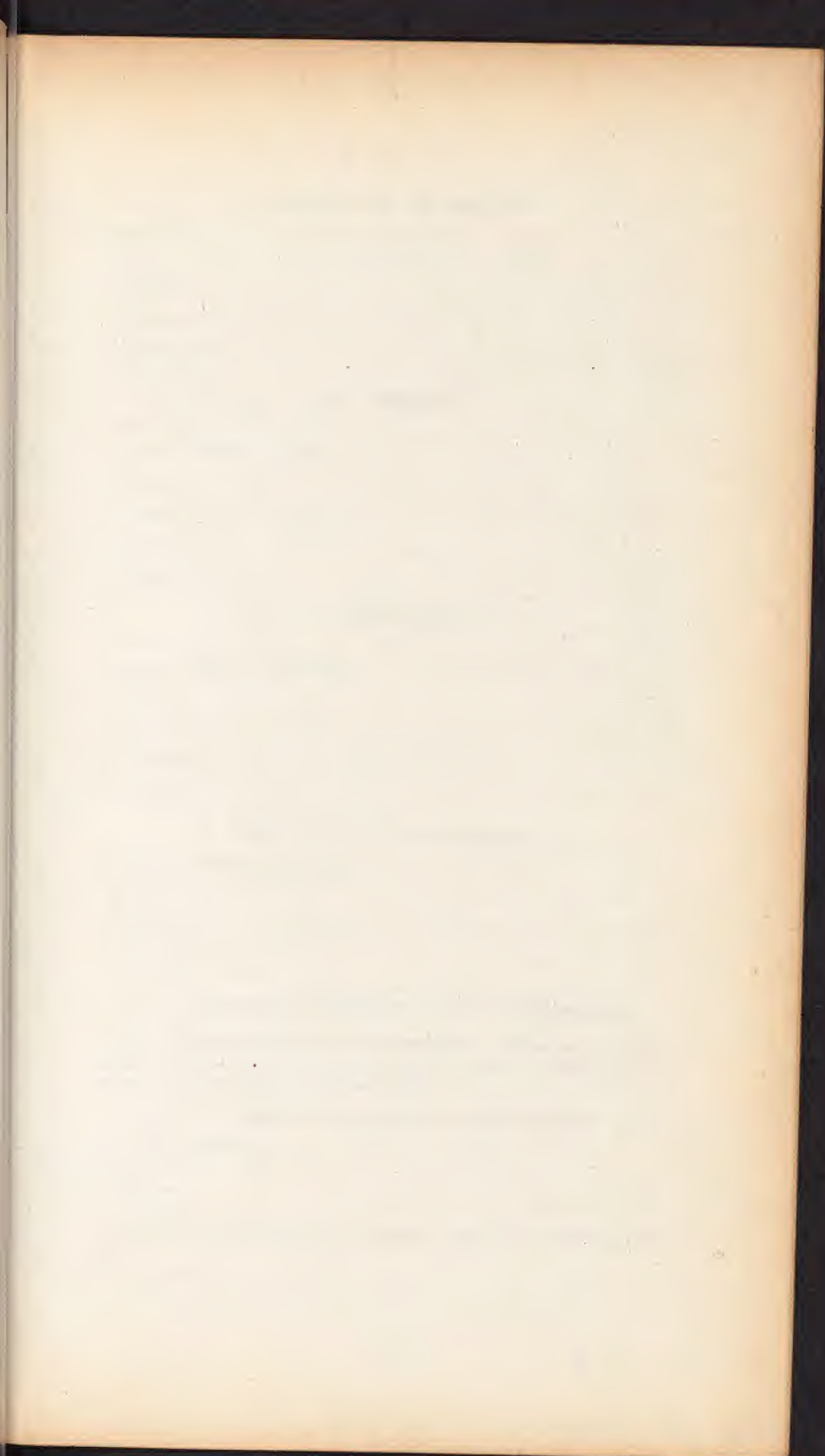
















## II. PARONYCHIA, OR WHITLOW.

*Definition.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Terminations.*

*Treatment.*

## III. TYROMA.

*Definition.*

*Varieties.*—Partial or general.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Terminations.*

*Treatment.*

## IV. CHONDROMA.

*Definition.*

*Varieties.*—Partial or general.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Terminations.*

*Treatment.*

## V. OSSIFICATION OF THE PERIOSTEUM.

*Varieties* —Partial or general.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

## VI. MALIGNANT DISEASES OF THE PERIOSTEUM.

Like all other organized tissues, the periosteum is liable to be attacked by the various diseases termed *malignant*, the characteristics of which have already been or will be described under other heads.

## VII. WOUNDS OF FASCIA OR APONEUROSIS.

*Varieties of wounds.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Terminations.*—Inflammation, sloughing, suppuration, adhesions, contractions.

*Treatment.*

## VIII. CONTRACTION OF FASCIA.

The numerous fasciæ and aponeuroses in different parts of the body, are all liable to undergo a *chronic thickening and contraction*, from which results a variety of deformities, many of them very difficult to relieve, and others entirely incurable. Ghidella and Froiep were among the first to describe these affections with any thing like method or correctness, although the disease was long since spoken of by the ancients, as "*crispatura tendinum!*" Sir A. Cooper, Dupuytren, Goyraud, and most of the recent authorities in orthopedic surgery, have likewise carefully and correctly explained the nature of the defect, and also the most approved methods of treatment. We shall describe briefly the most important of the deformities resulting from this cause.

## I. CONTRACTION OF THE FASCIA PALMARIS.

*Anatomy of the fascia of the palm of the hand.*

*Deformity produced by the contraction of the fascia, or fibrous cords attached to its inferior margin.*—(Dupuytren and Goyraud.)

*Fingers usually involved.*

*Causes of the contraction.*—1. Congenital. 2. Acquired: and according to Dupuytren, the defect is occasionally hereditary.

*Diagnosis.*—May be confounded with retraction of the fingers dependent on other causes; as contraction of the flexor tendons, cicatrices, &c.

*Prognosis.*—By no means in every case favorable. It is, however, often susceptible of relief.

*Effects on the adjacent muscles, tendons and ligaments.*

*Treatment.*—Three modes of treatment. 1. Mechanical extension. 2. Frictions. 3. Subcutaneous section, followed by mechanical extension. The merits of these methods discussed.

## II. CONTRACTION OF THE FASCIA CUBITI.

*Anatomy of the part.*

*Deformity produced by the contraction of the Fascia.*

*Causes.*—1. Congenital. 2. Acquired.

*Diagnosis.*—May be confounded with contraction of the tendons of the biceps and brachialis internus muscles, and inflammation of the joint.

*Prognosis.*

*Effects on the other constituents of the articulation.*

*Treatment.*—The same general methods are applicable here, that are employed in the other fascial contractions.

## III. CONTRACTION OF THE FASCIA PLANTARIS.

*Anatomy of the sole of the foot.*

*Deformity produced by the contraction of the fascia.*

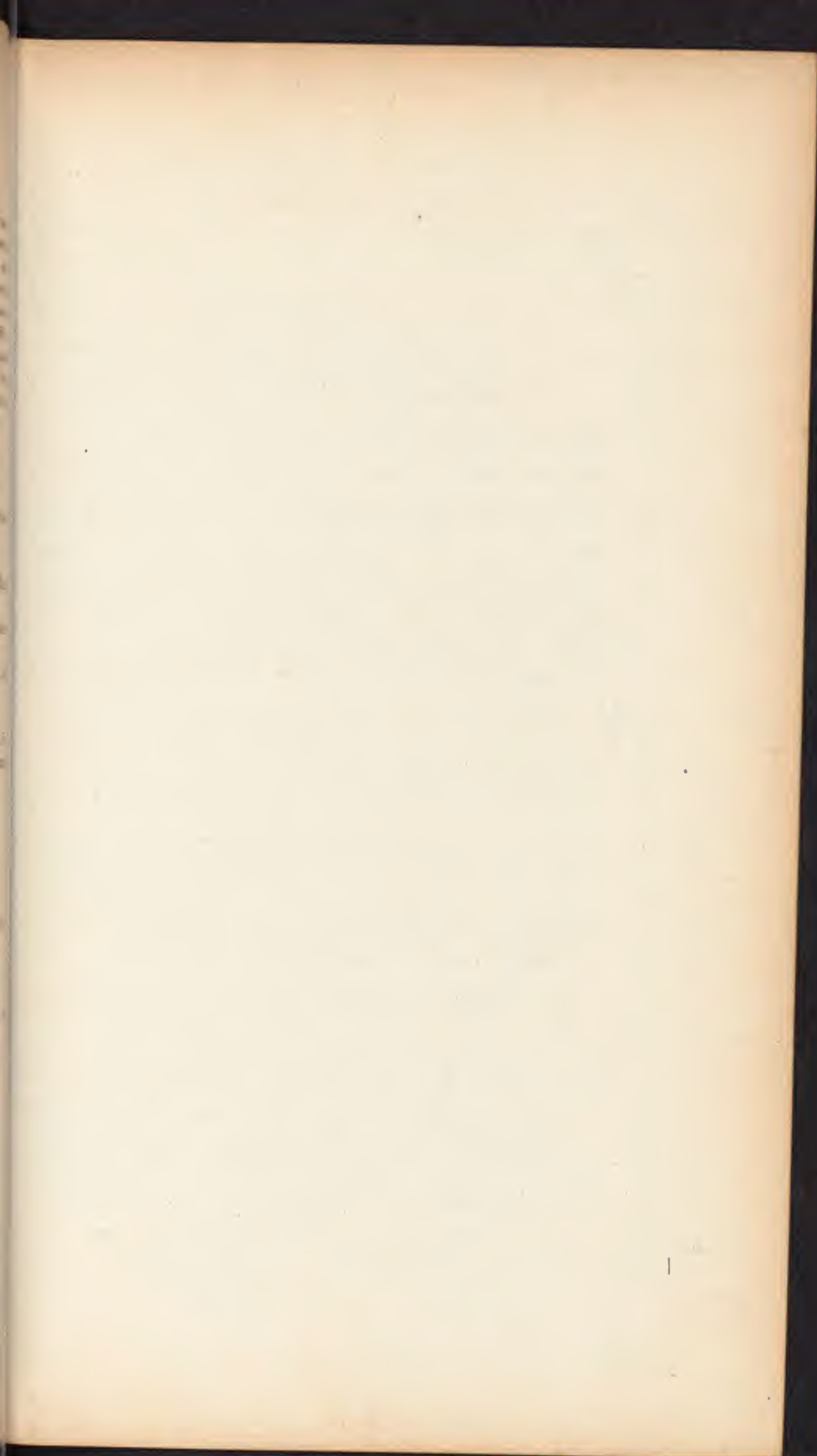
*Causes.*—1. Congenital. 2. Acquired.

*Diagnosis.*—May be mistaken for common talipes equinus.

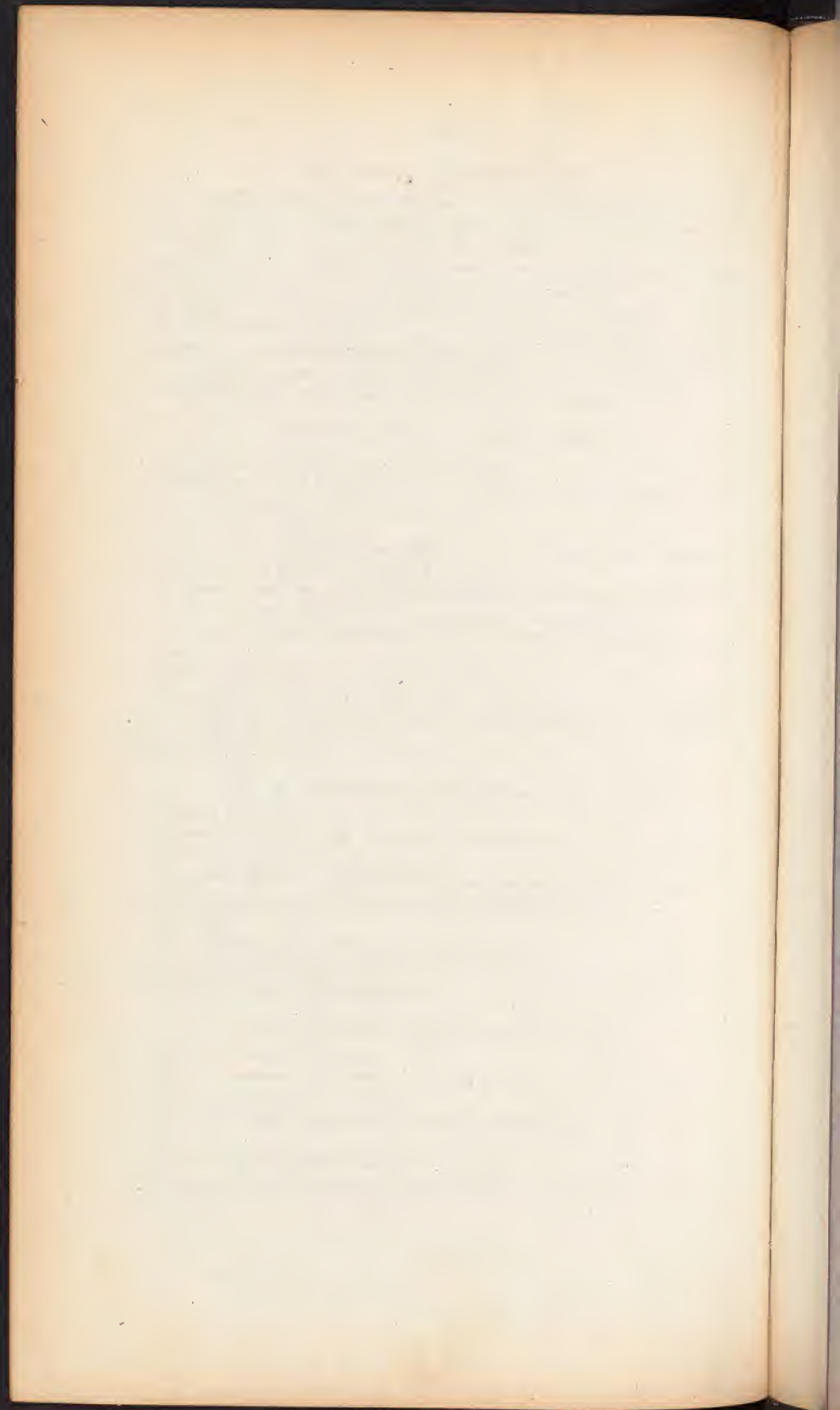
*Prognosis.*

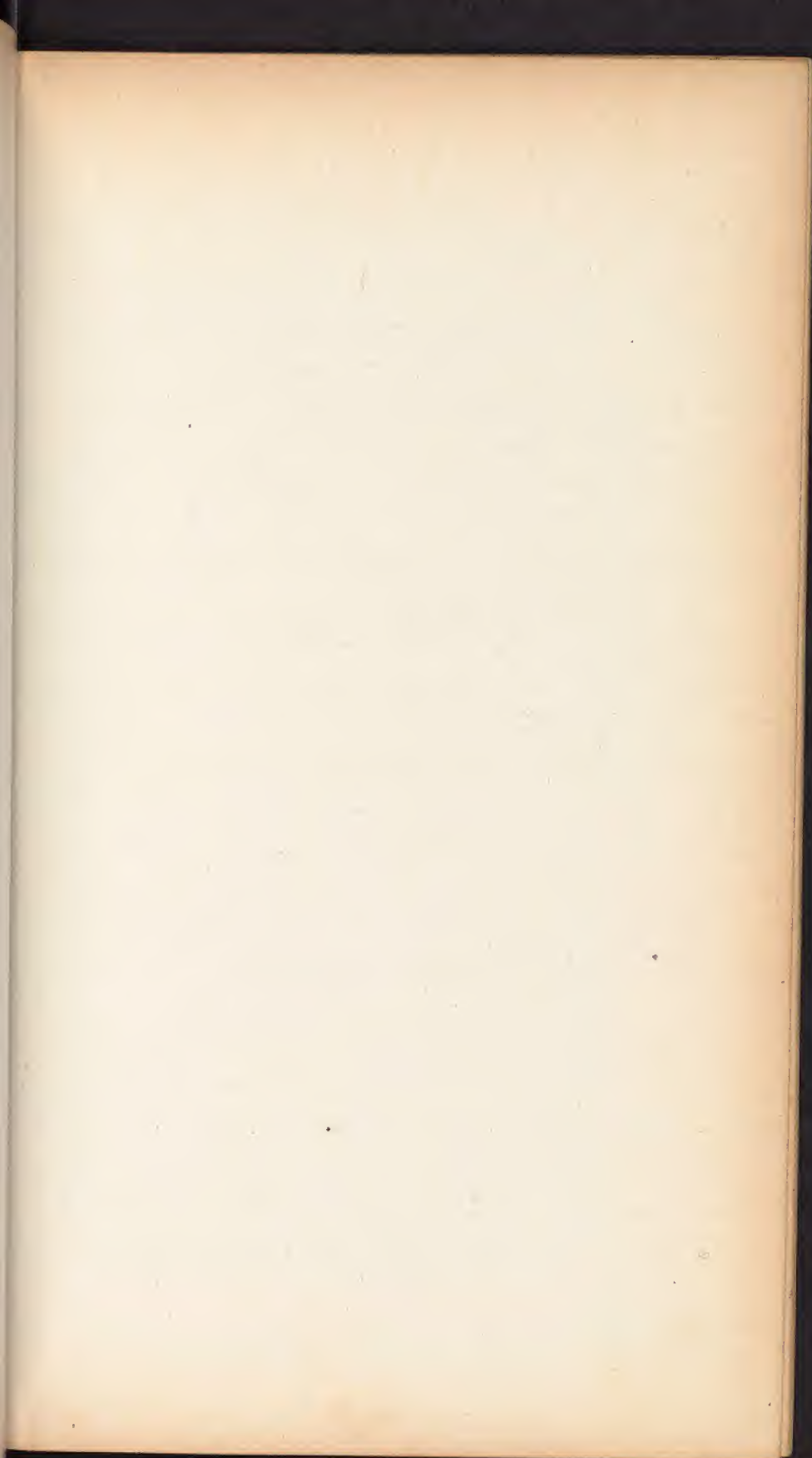
*Effects on the tarsal and metatarsal articulations.*

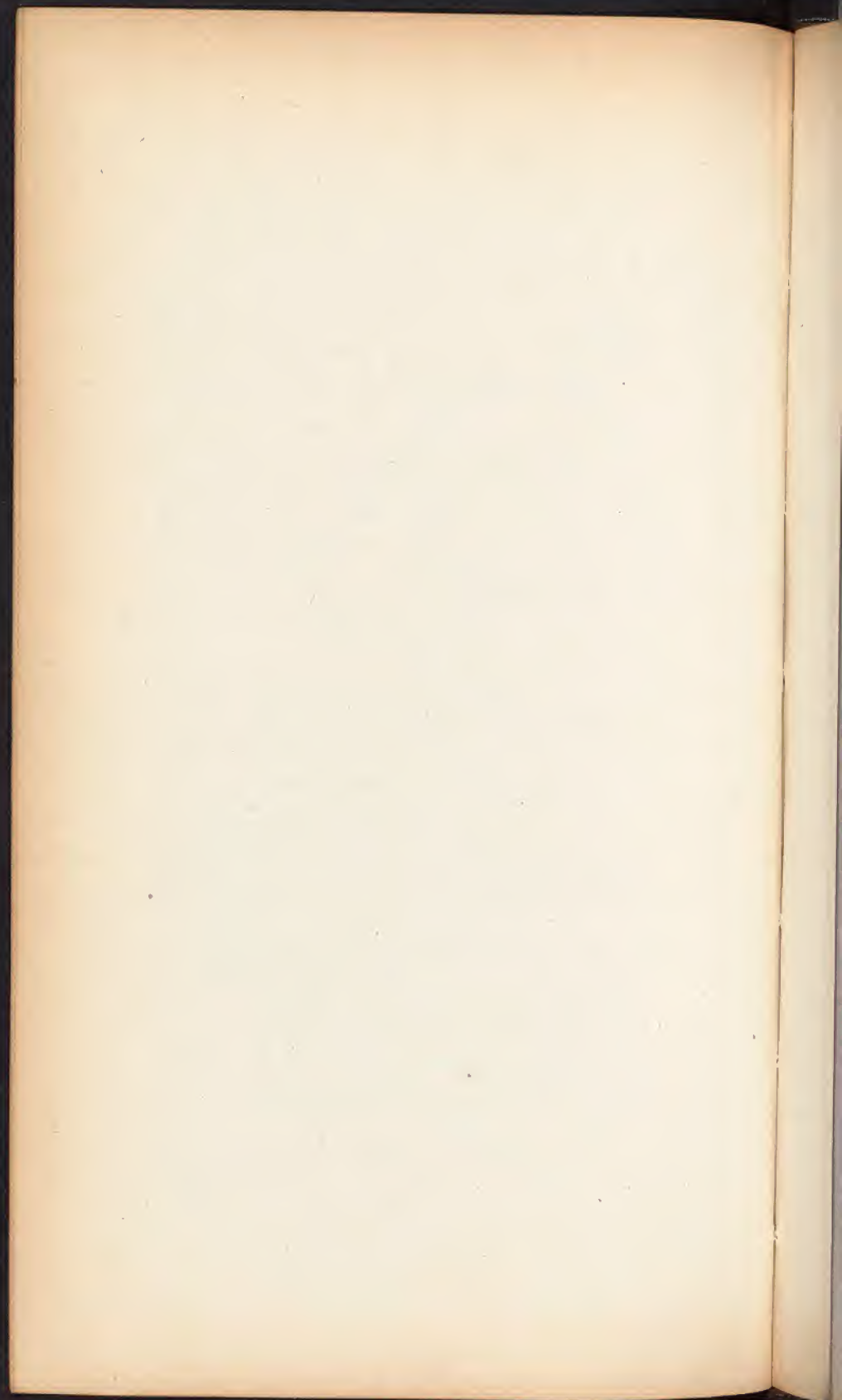
*Treatment.*—The same general methods that are required in contraction of the other fascia.



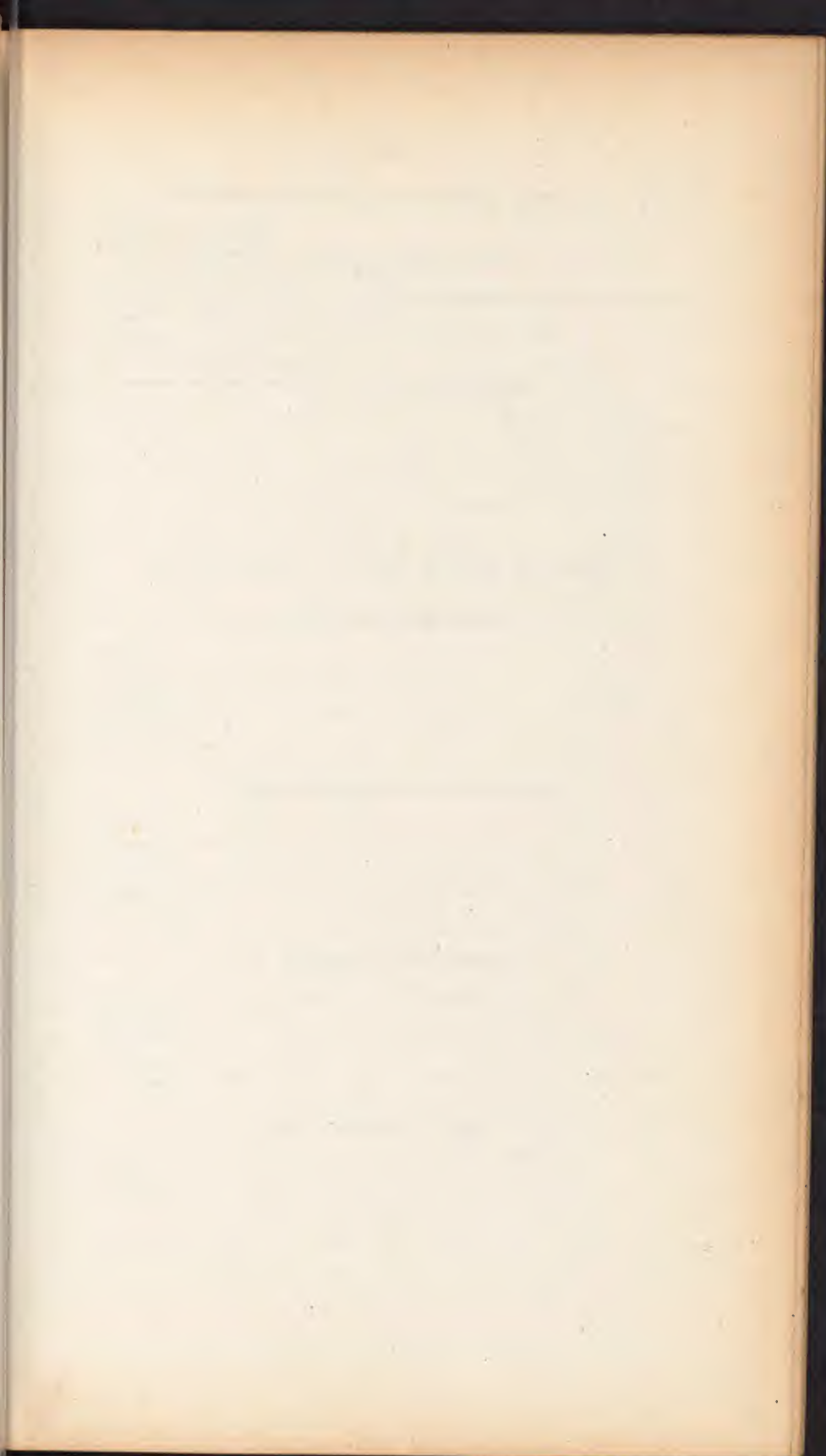


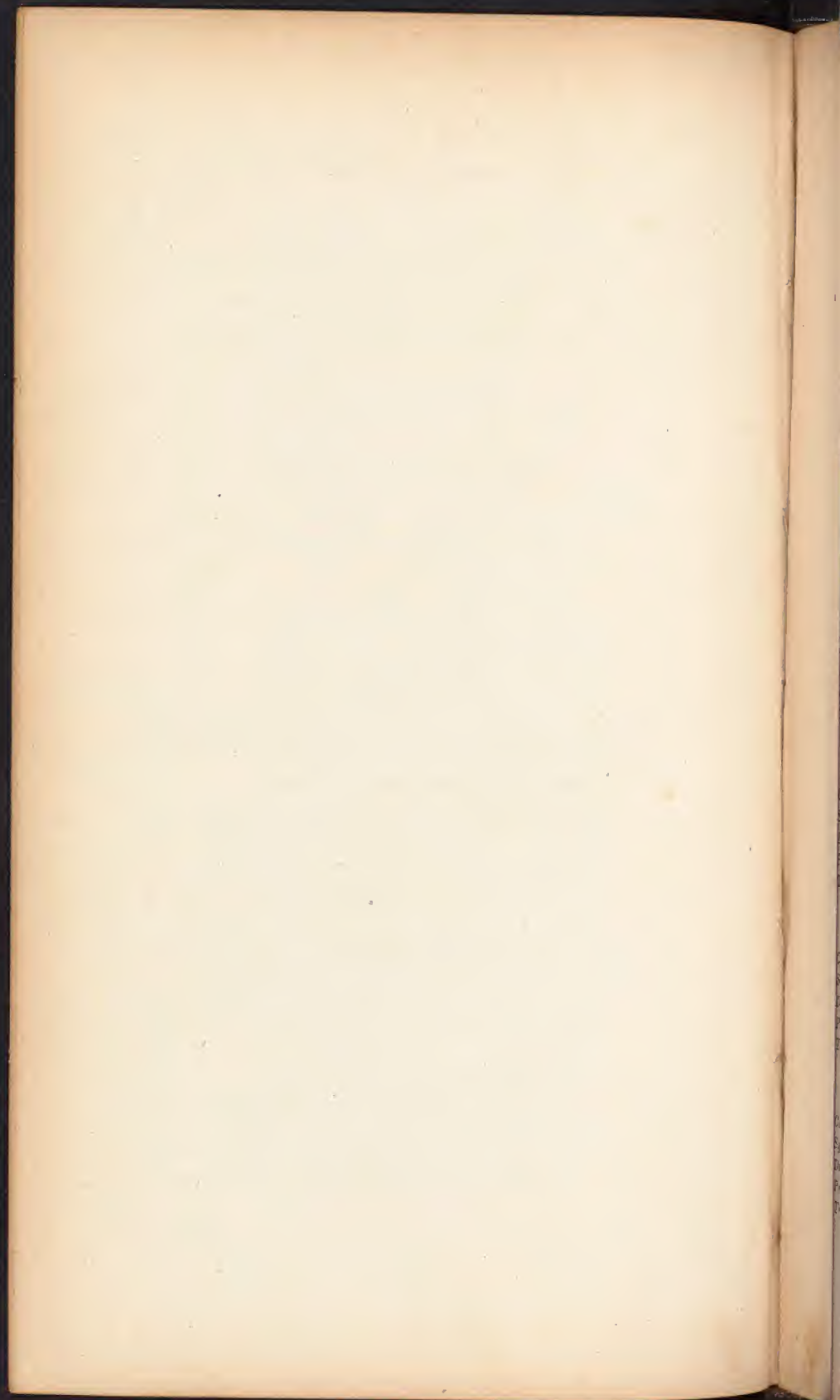












IV. CONTRACTION OF THE FASCIA LATA AT THE KNEE.

*Anatomy of the joint.*

*Deformity produced by the contraction of the fascia.*

*Causes.*—1. Congenital. 2. Acquired.

*Diagnosis.*—May be confounded with contractions of the tendons and muscles, and also inflammation of the joint.

*Prognosis.*

*Effects on the articulation.*

*Treatment.*—The same general methods hold good here.

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IV. DISEASES OF THE BURSAE MUCOSÆ.

I. WOUNDS OF THE BURSAE.

*Varieties.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

II. INFLAMMATION OF THE BURSAE.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

III. ABSCESS OF THE BURSAE.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

IV. HYDROPS BURSAE.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*



## V. CARTILAGINOUS FORMATIONS IN THE BURSÆ.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

## VI. GANGLION.

*Definition.*—Encysted tumor formed in the course of a tendon or its fibrous sheath.

*Symptoms.*  
*Causes.*  
*Pathology.*  
*Joints most liable.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

1. Stimulating friction and blisters; 2. Compression; 3. Seton; 4. Puncture followed by compression; 5. Rupture of Cyst; 6. Acupuncture; 7. Extirpation.

## VII. BUNYON.

*Definition.*—An inflammation with thickening of the bursa mucosa on the inside of the great toe.

*Causes.*  
*Symptoms.*  
*Prognosis.*

*Diagnosis.*—Dislocation from Gout and Rheumatism.

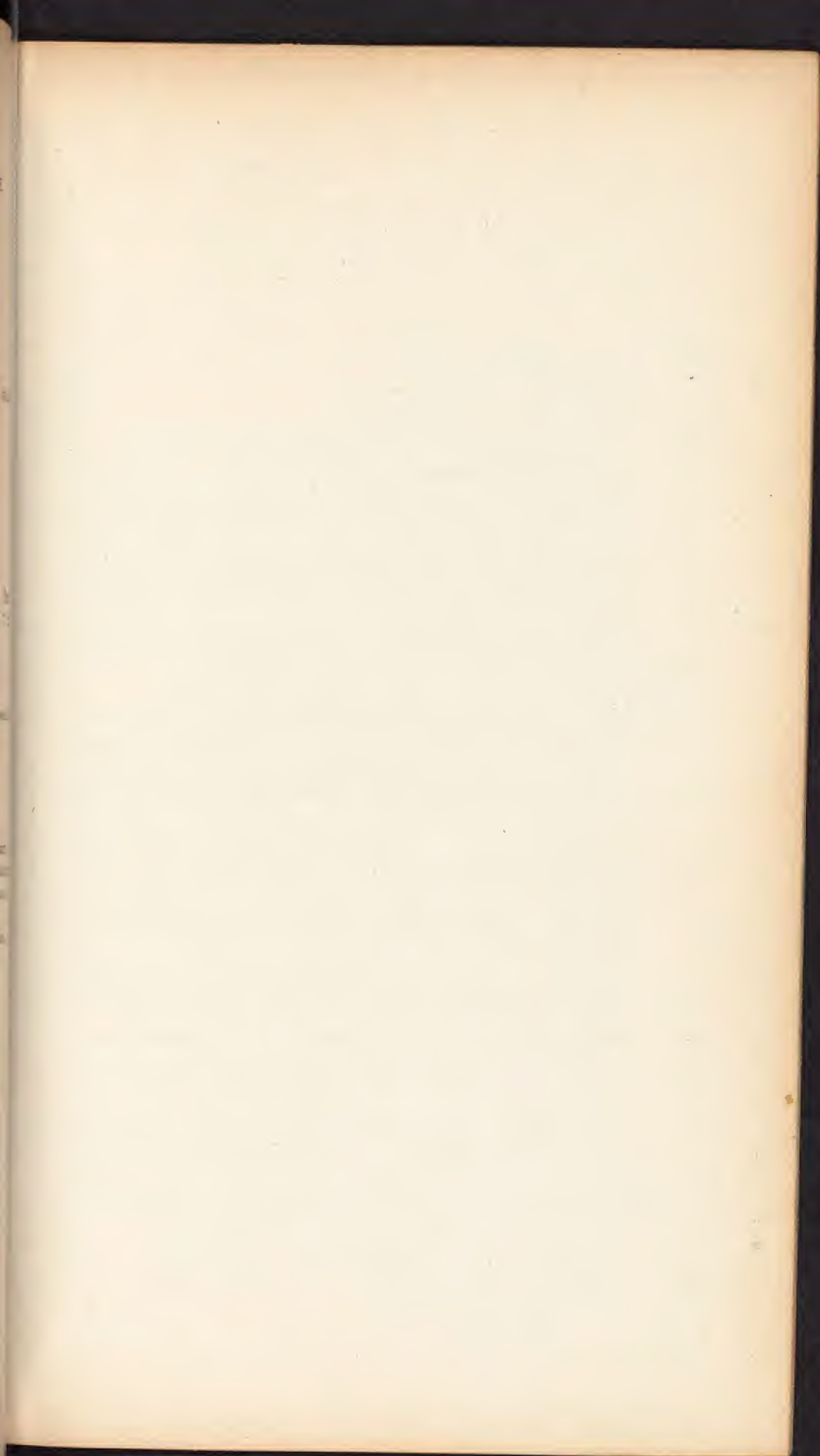
*Treatment.*—When *acutely* inflamed, leech, and apply cold or warm poultices, and elevate the foot; when *chronic* inflammation takes place, blister and use iodine locally, and avoid pressure on the foot; when *suppuration* takes place, let out the pus, and apply a poultice.

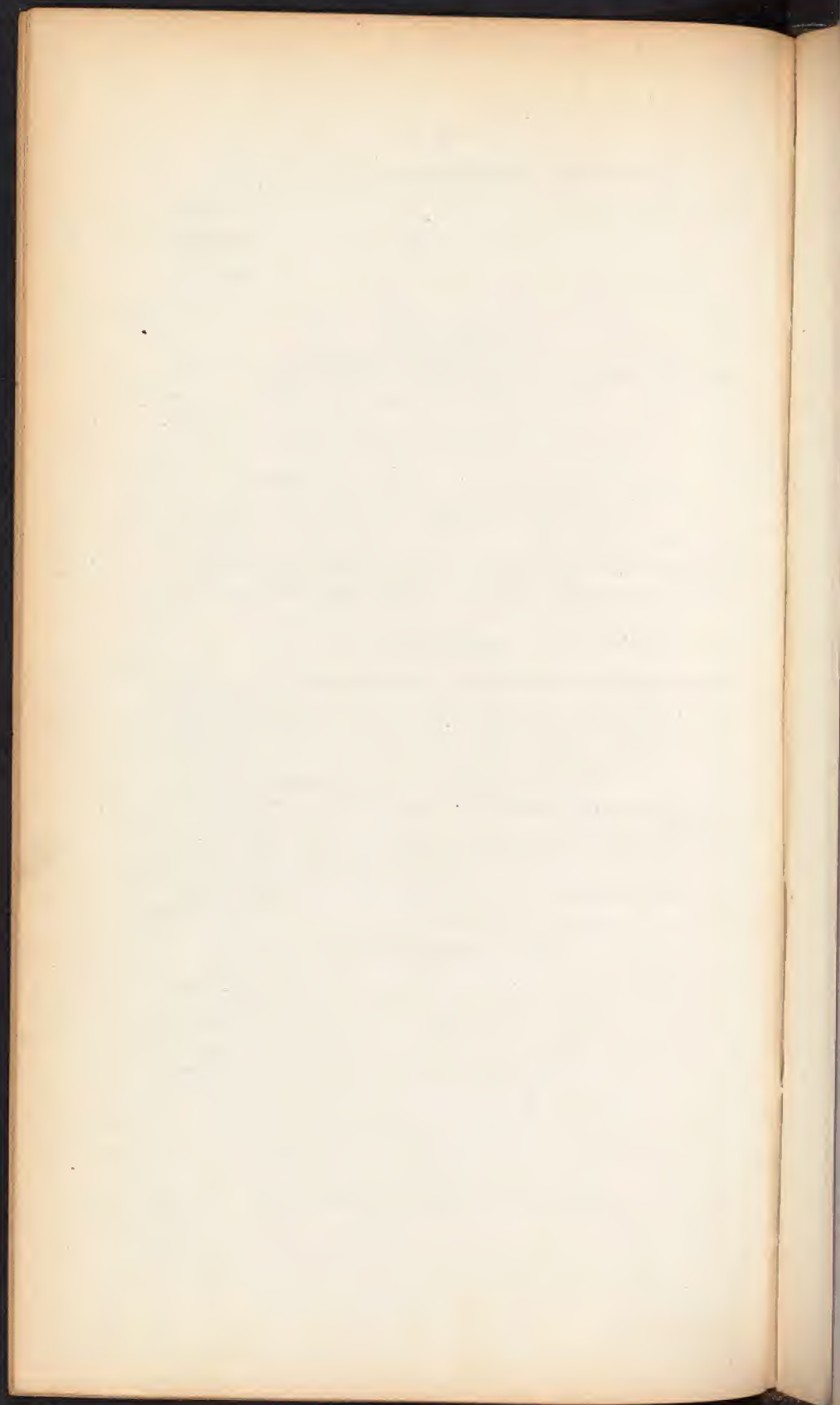
When the bursa become very troublesome, it may be dissected out. [See Brodie.]

## VIII. HOUSEMAID'S KNEE.

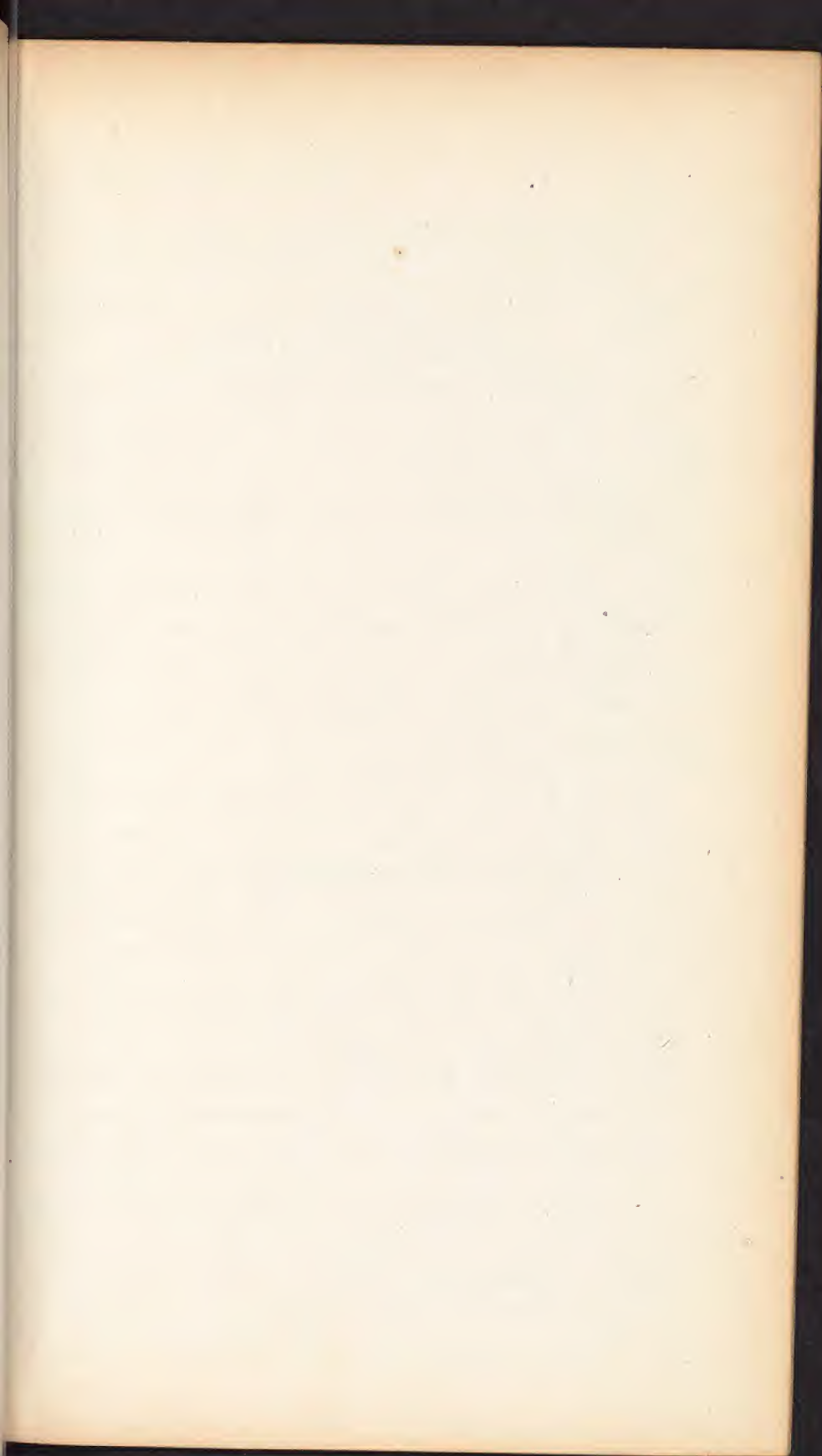
*Definition.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

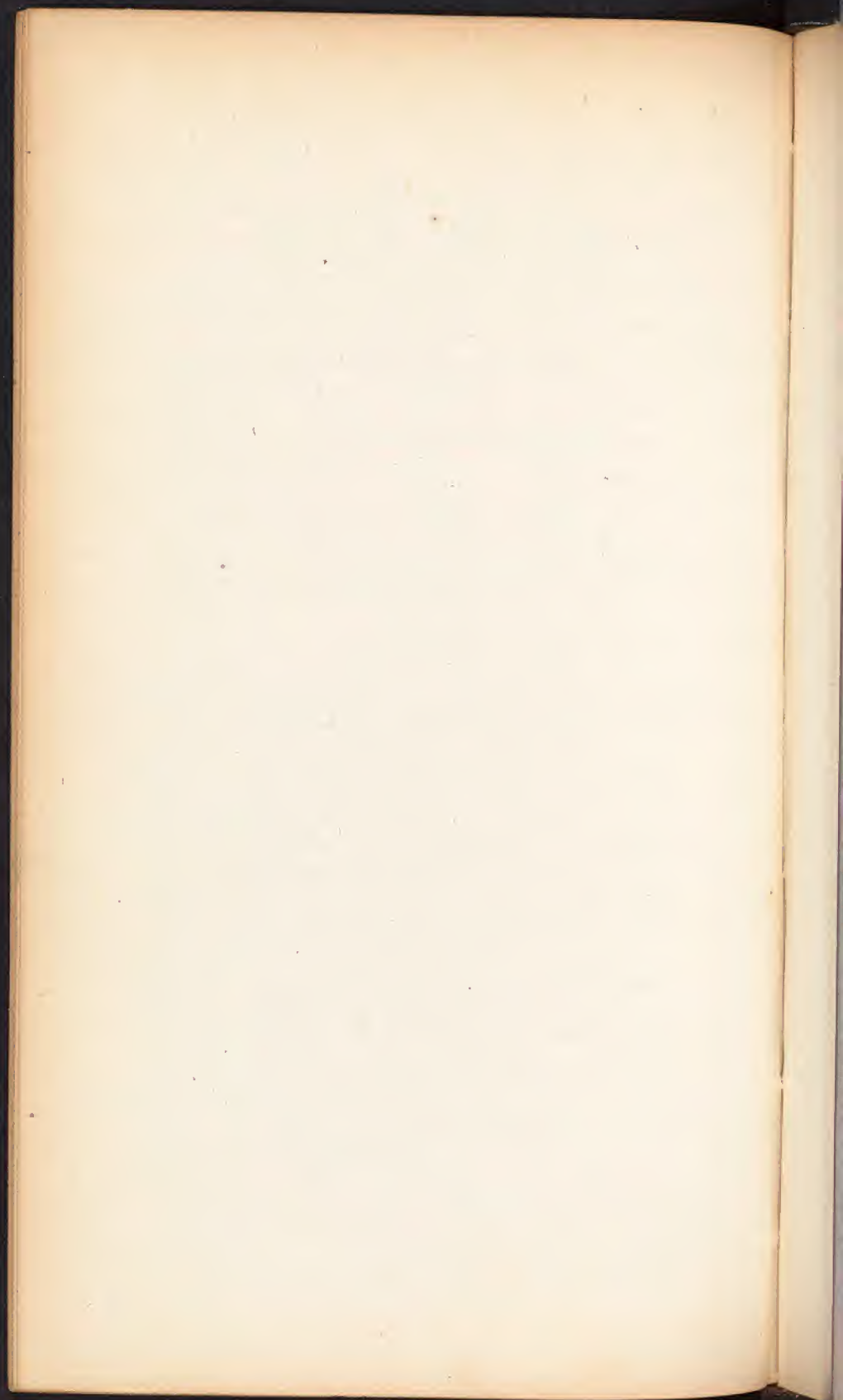
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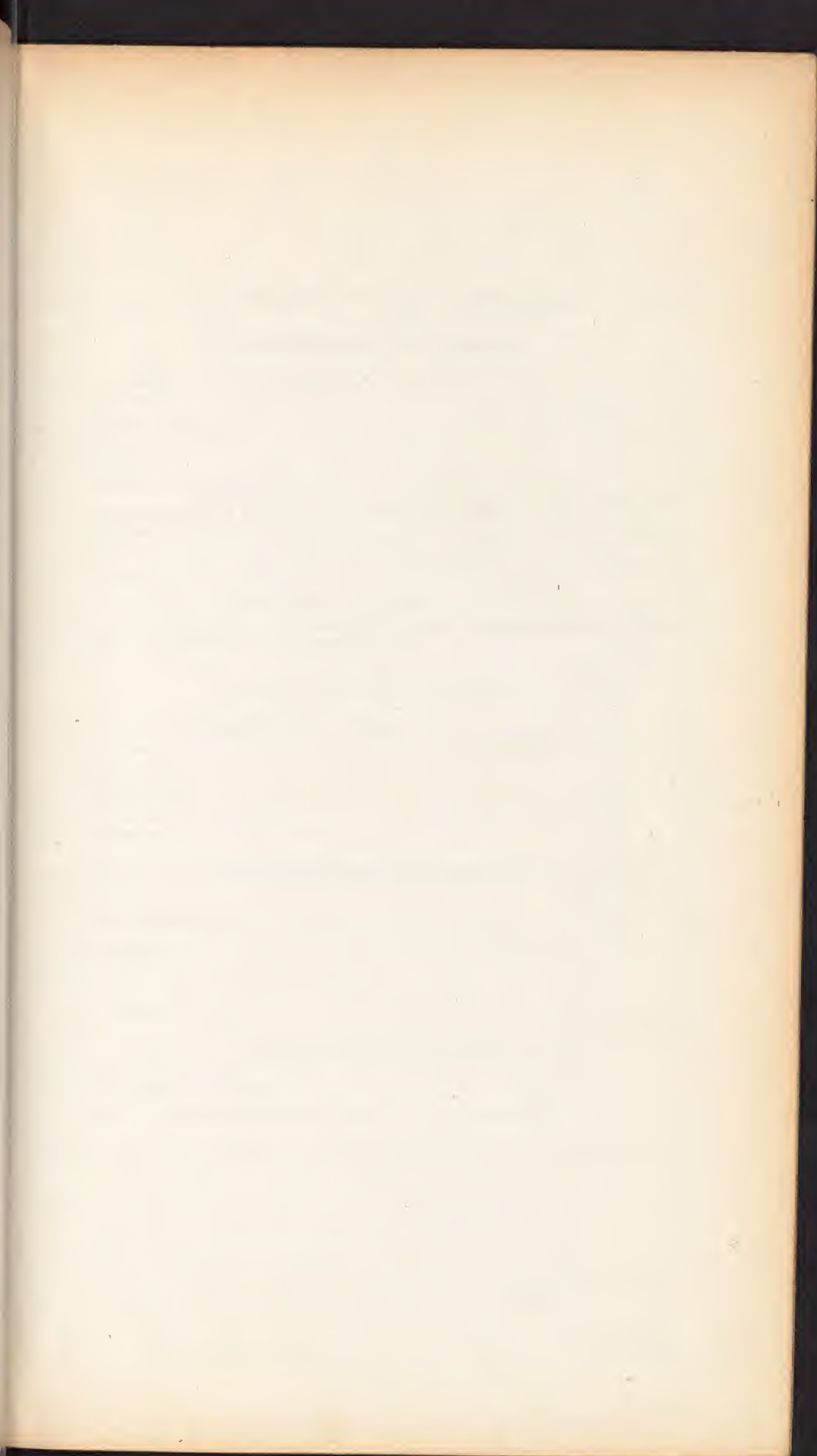




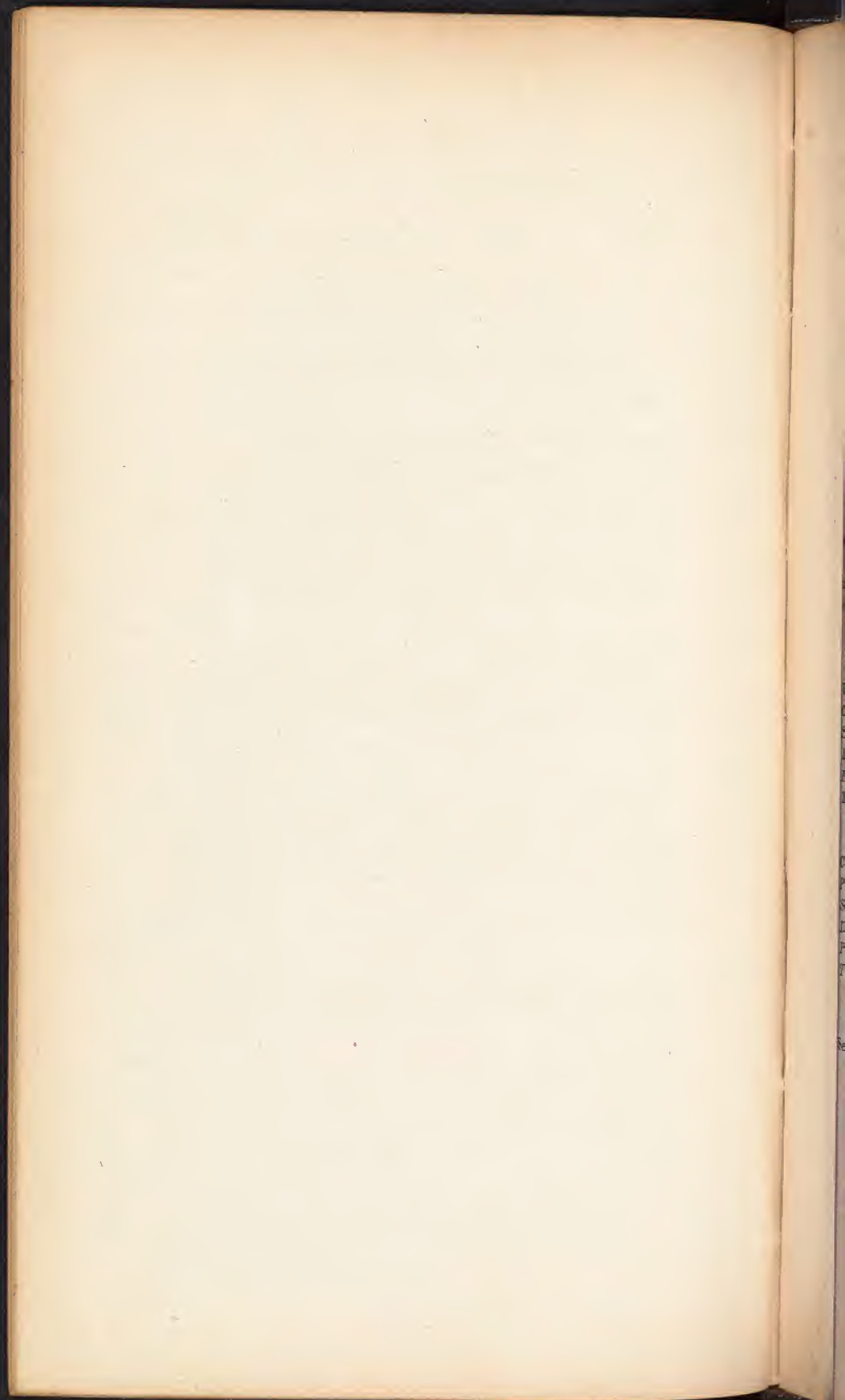












## V. DISEASES OF THE TENDONS.

### I. WOUNDS OF THE TENDONS.

*Varieties.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Mode of reparation.*—Depends upon the nature of the wound. In wounds exposing the tendon to the air, the process differs essentially from that which takes place when the tendon is not exposed. The degree of separation of the divided extremities also modifies the process.—(See Velpeau, Ammon, and Bouvier.)

*Treatment.*—1. Simple position and apparatus. 2. The Suture, aided by bandages and position. 3. Antiphlogistic system. The apparatus or dressing must be modified to suit each particular case.

### II. INFLAMMATION OF TENDONS.

*Varieties.*—Simple, rheumatic, or gouty; acute, or chronic.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

### III. OSSIFICATION OF TENDONS.

*Causes.*

*Persons most liable.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

### IV. TUMOURS OF TENDONS.

See chapter on "Tumours."

## VI. INJURIES AND DISEASES OF THE VOLUNTARY MUSCLES AND THEIR TENDONS.

### I. WOUNDS AND RUPTURE OF MUSCLES.

*Varieties.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Mode of reparation.*—This process is modified by the exposure or non-exposure of the injured muscle to the action of the air.

*Treatment.*—1. Rest, proper position, and apparatus. 2. Suture, or straps, and bandages. 3. Antiphlogistics.

### II. MYOSITIS OR INFLAMMATION.

*Varieties.*—Simple, rheumatic, or gouty; acute or chronic.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Terminations.*—Palsy, irregular spasm; suppuration, (Myositis purulenta;) softening, (Myositis emolliens;) hypertrophy; atrophy; hardening; and ossification.

*Treatment.*

### III. SUPPURATION IN MUSCLE.

The symptoms indicative of suppuration in this tissue resemble those already described under the general head "Suppuration," and the treatment is precisely the same as that proper in cases of suppuration elsewhere. The most striking peculiarity of this action here, is the circumstance of the entire muscle often disappearing, as in *psoas abscess*.

### IV. SOFTENING.

This condition of the muscle may result from *defective nutrition*, as stated by Laennec; and also from *inflammation*, as Bouillaud has clearly shown. The muscle becomes pale, flabby, friable, and easily torn. There is no remedy for the difficulty.

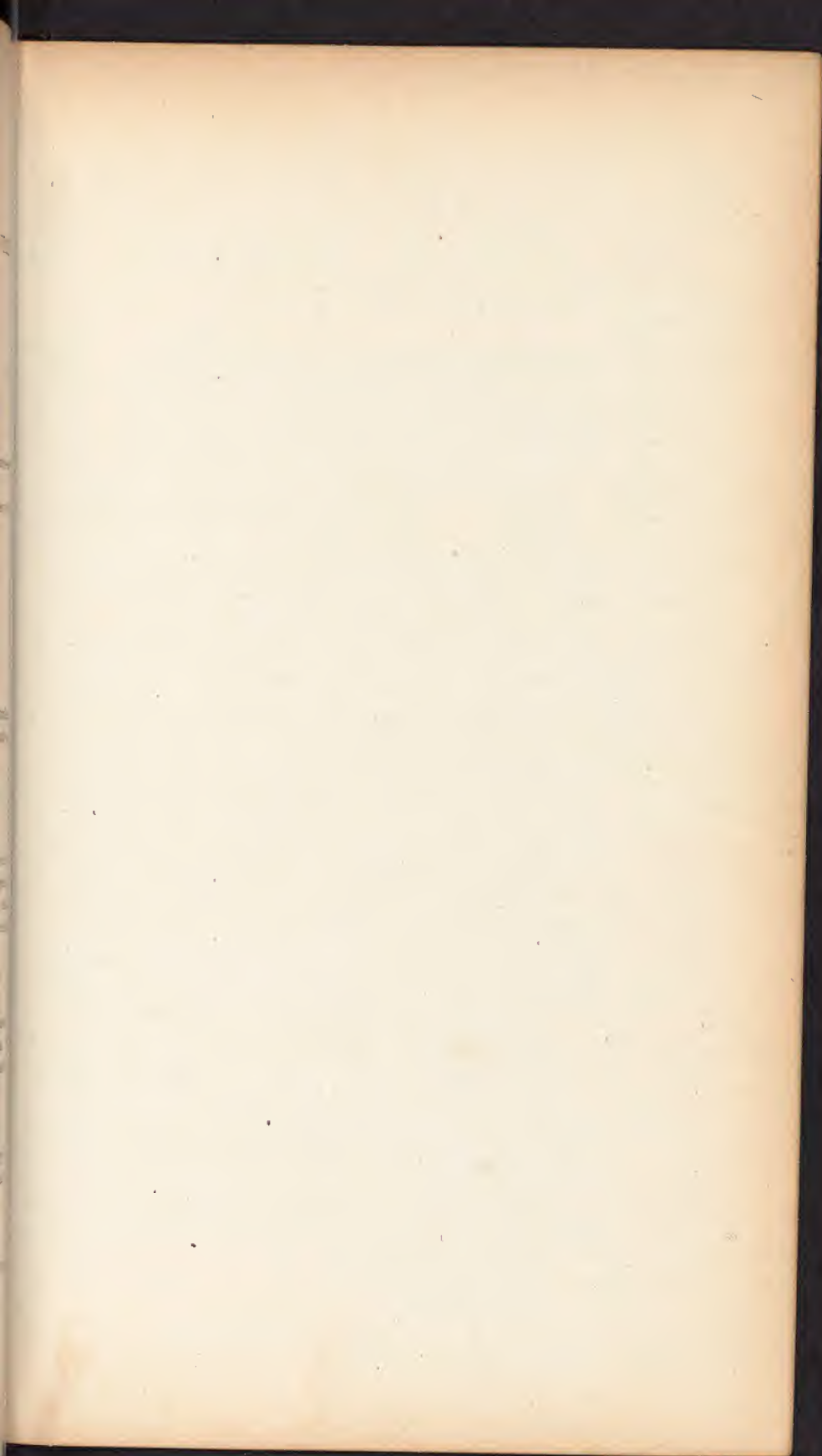
### V. STEATOSIS, OR FATTY DEGENERATION.

This degeneration is exceedingly uncommon, but cases are reported by Vieq. d'Azyr and others, in which the muscles were reduced to all the physical properties of fat.

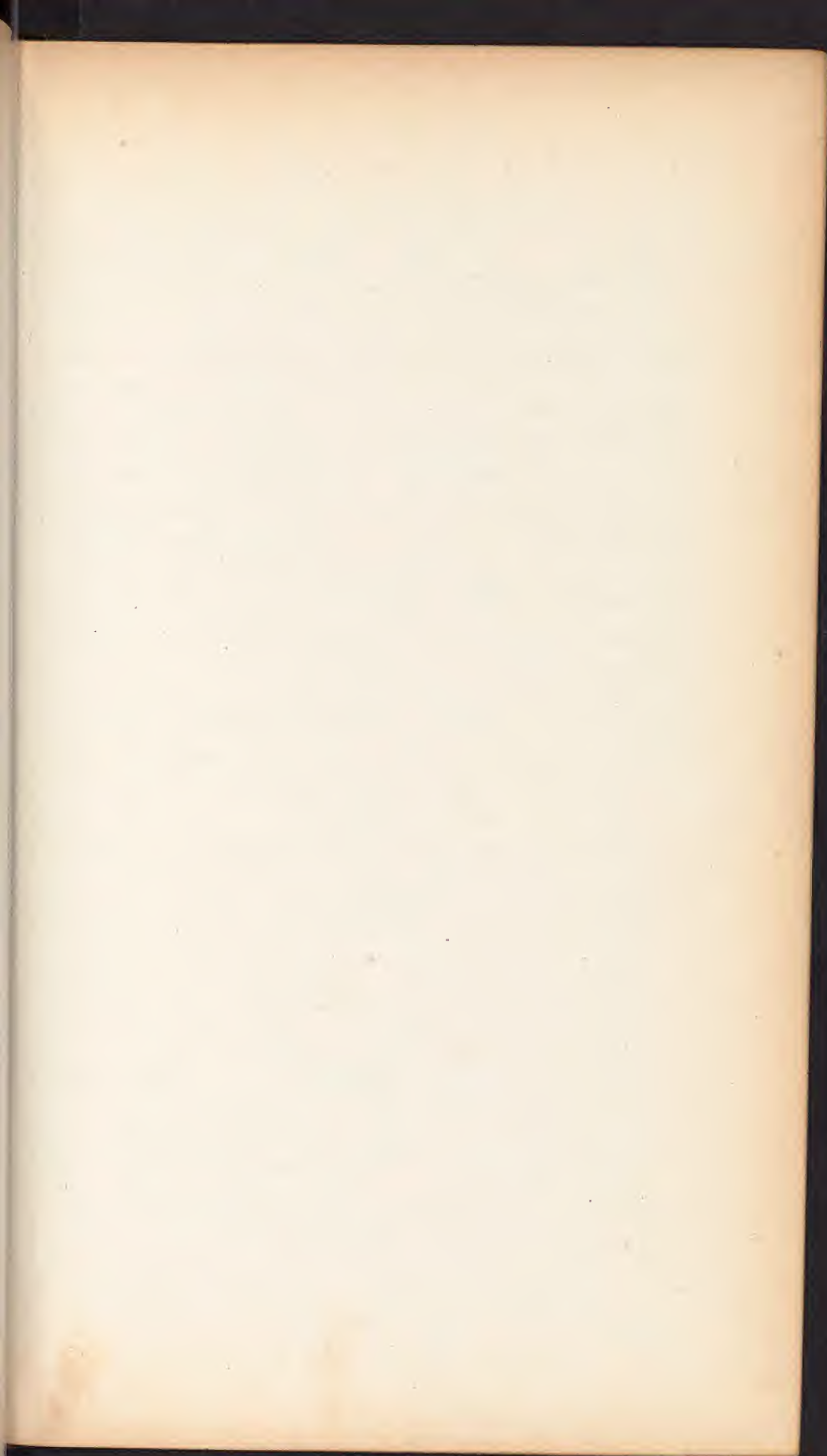
### VI. OSSIFICATION.

This is seen in old persons, and also in certain forms of exostosis. It may exist as the result of inflammation.



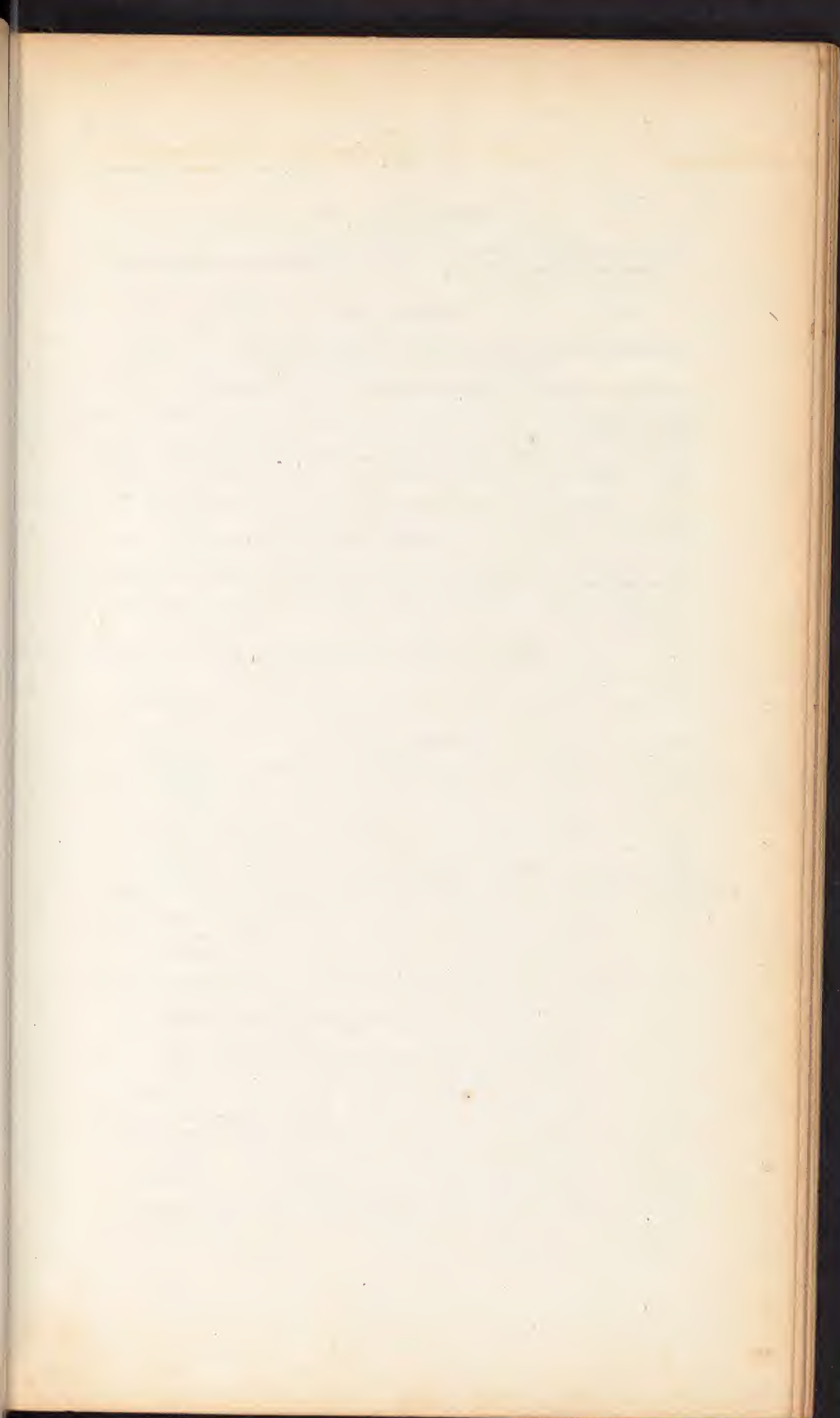
















## VII. HYPERTROPHY.

This condition of the voluntary muscles is rare, but it occasionally occurs from *inflammation*, or *excessive nutrition*. It is also sometimes congenital.

## VIII. ATROPHY.

This is a very important lesion of the muscles, and gives rise to many diseases. It presents itself under several forms. We have—

1. *Simple atrophy*—the result of long disuse, palsy, or defective nutrition.  
 2. *Rigid atrophy*.—The muscle is here shortened, rigid, inextensible, and lighter colored than natural. The diseases produced by this variety are club-foot, some forms of wry neck, contracted limbs, stiff jaw, &c. It generally results from spasmodic affections, or from the muscles being confined for some time to one position.

3. *Atrophy, with absorption of the muscular tissue*.—This is usually the result of exposure to cold for a length of time.

The affections resulting from *simple atrophy* may occasionally be relieved by removing the cause and resorting to measures calculated to restore tone and vigor to the muscles. The most common deformities produced by it are

## I. PARALYSIS OF ONE LEG OR BOTH.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment*.—1. Constitutional remedies.

a. Strychnia.

b. Cold bath.

c. General frictions.

d. Nutritious diet.

e. Exercise in the fresh air. To accomplish this indication we are generally obliged to use a go-cart.

2. Local measures.

a. Frictions.

b. Galvanism.

c. Acupuncture.

d. Mechanical support.

e. Operation of Stromeyer.

## II. FASCIAL PALSY.

*Causes.*

*Muscles involved.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment*.—1. Constitutional remedies—the same as those recommended in the other case.

2. Local treatment.
  - a. Acupuncture.
  - b. Moxa over the mastoid process.
  - c. Galvanism.
  - d. Excision of a portion of the paralyzed cheek. Proposed by Dieffenbach
  - e. Section of the antagonizing muscles. Also proposed by Dieffenbach.

### III. ATROPHY OF THE GLUTEI MUSCLES.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

To comprehend and to manage properly the deformities resulting from *rigid atrophy*, it will be necessary to consider each one separately. And first of

#### CLUB FOOT.

*Definition.*

*Varieties.*—1. Talipes varus, or inversion. 2. Talipes valgus, or eversion. 3. Talipes equinus. 4. Talipes calcaneus. 5. Talipes dorsalis or phalangeal. Each of these *general divisions* may be subdivided into three groups, which I have termed degrees; for example, we have *first, second, and third* degrees of varus, &c.

*Causes.*—1. Congenital; 2. Acquired or accidental.

1st. *Or congenital.* Various theories entertained. The most rational is that now generally adopted, that unequal or irregular contraction of the muscles, by which their tendons and fascia are shortened, atrophied, and rendered more dense, is the proximate cause of the defect. In some cases, the extensors, in others the flexors are in fault, sometimes only one, sometimes several muscles are involved.—(Refer to some of the most ingenious theories on this subject.)

2d. *Or acquired.* Sprains, luxations, fractures, preternatural laxity of the ligaments, partial or complete paralysis of one set of muscles, their antagonists retaining their natural power and vigor, convulsions, habit of using certain muscles more than others, &c.

*Foot most liable.*—The right.

*Sex most liable.*—The male.

*Variety most common.*—1st, or varus.

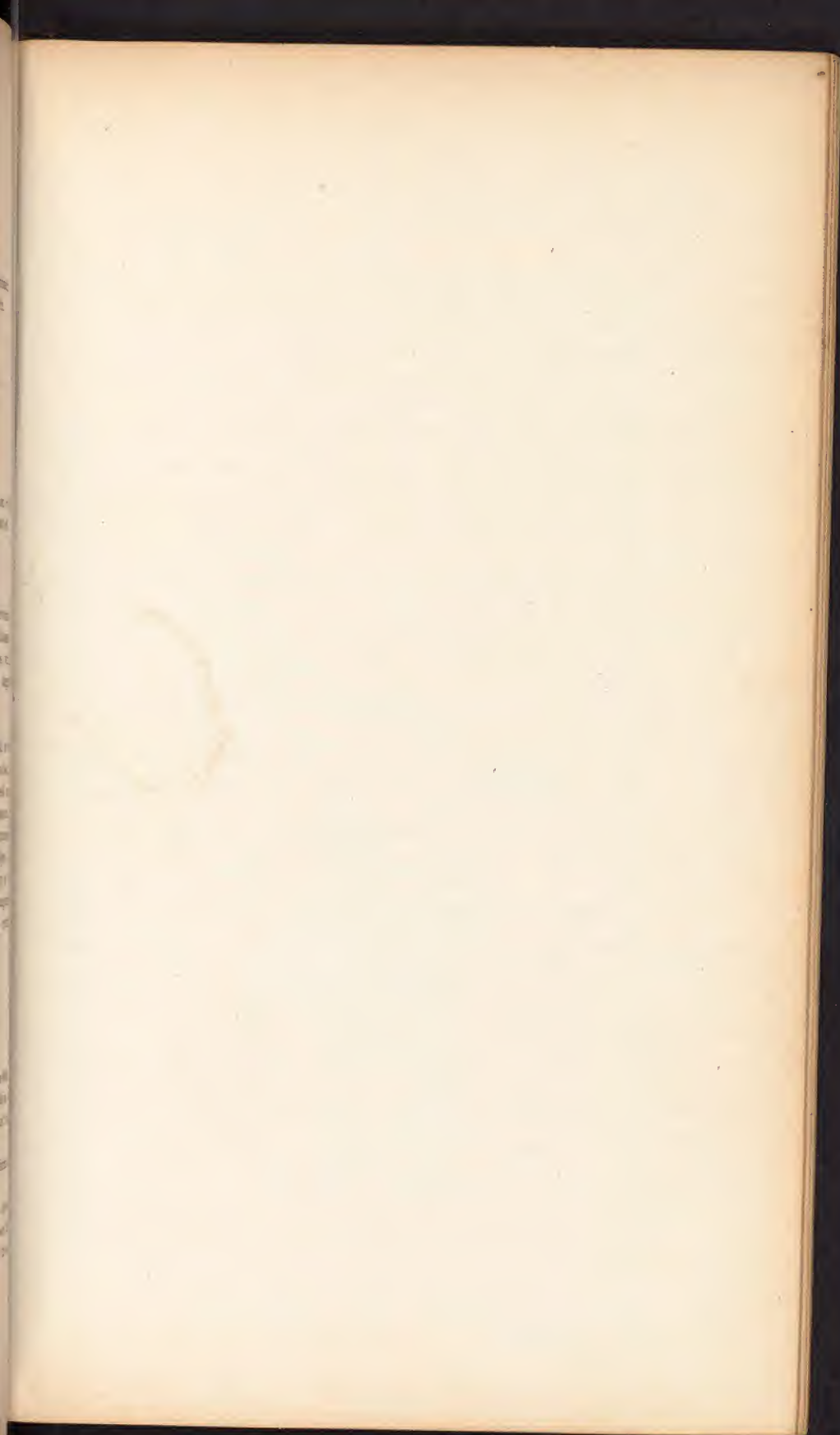
*Characteristics of each variety, and those of its various degrees.*

*Condition of legs and knees.*

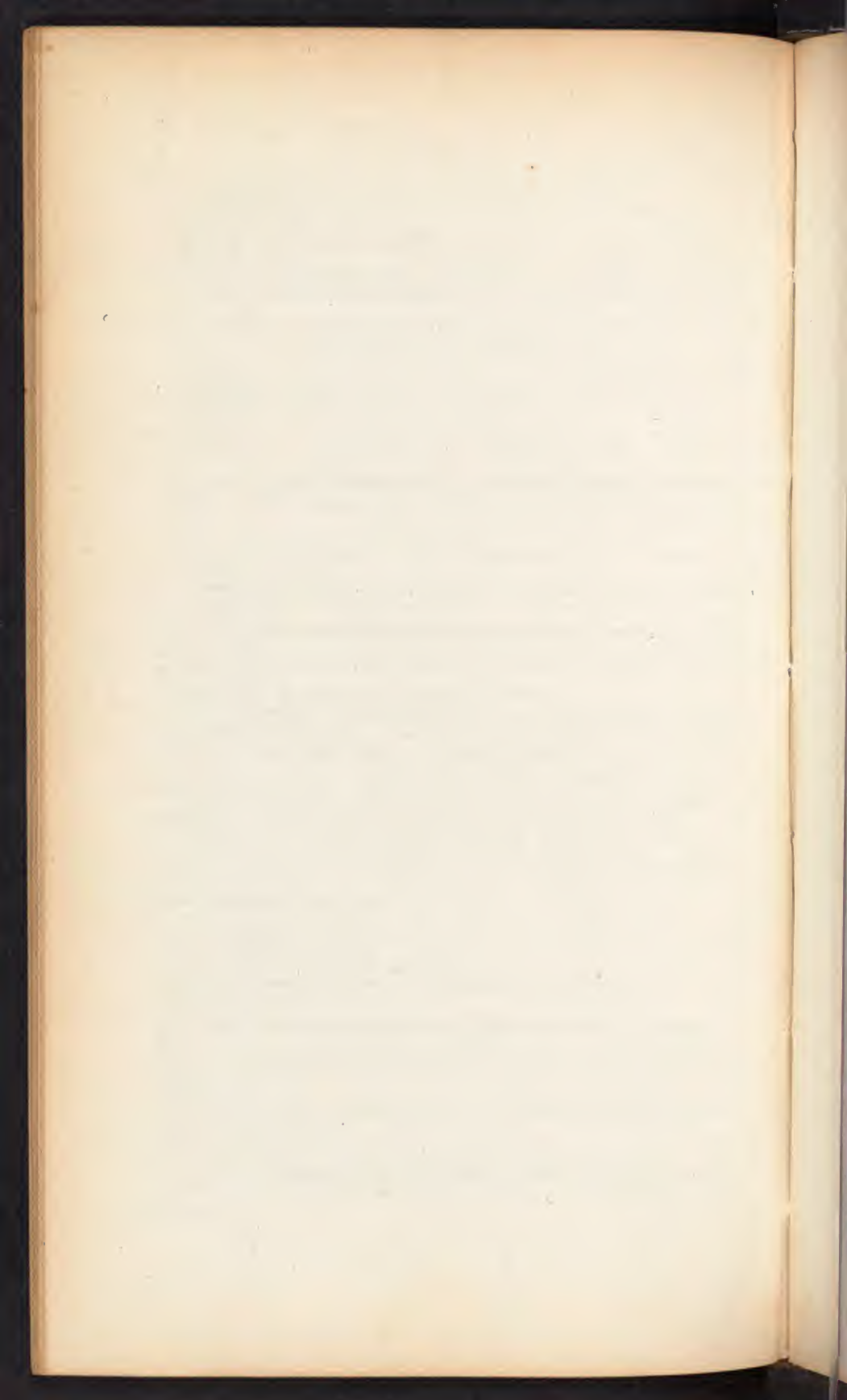
*Dissection.*—The appearances, of course, depend on the variety of the defect, its degree, cause, age, and the mode of life of the patient. Call attention to the bursæ, exostosis, ankylosis, and abrasions, often met with in cases of long standing.

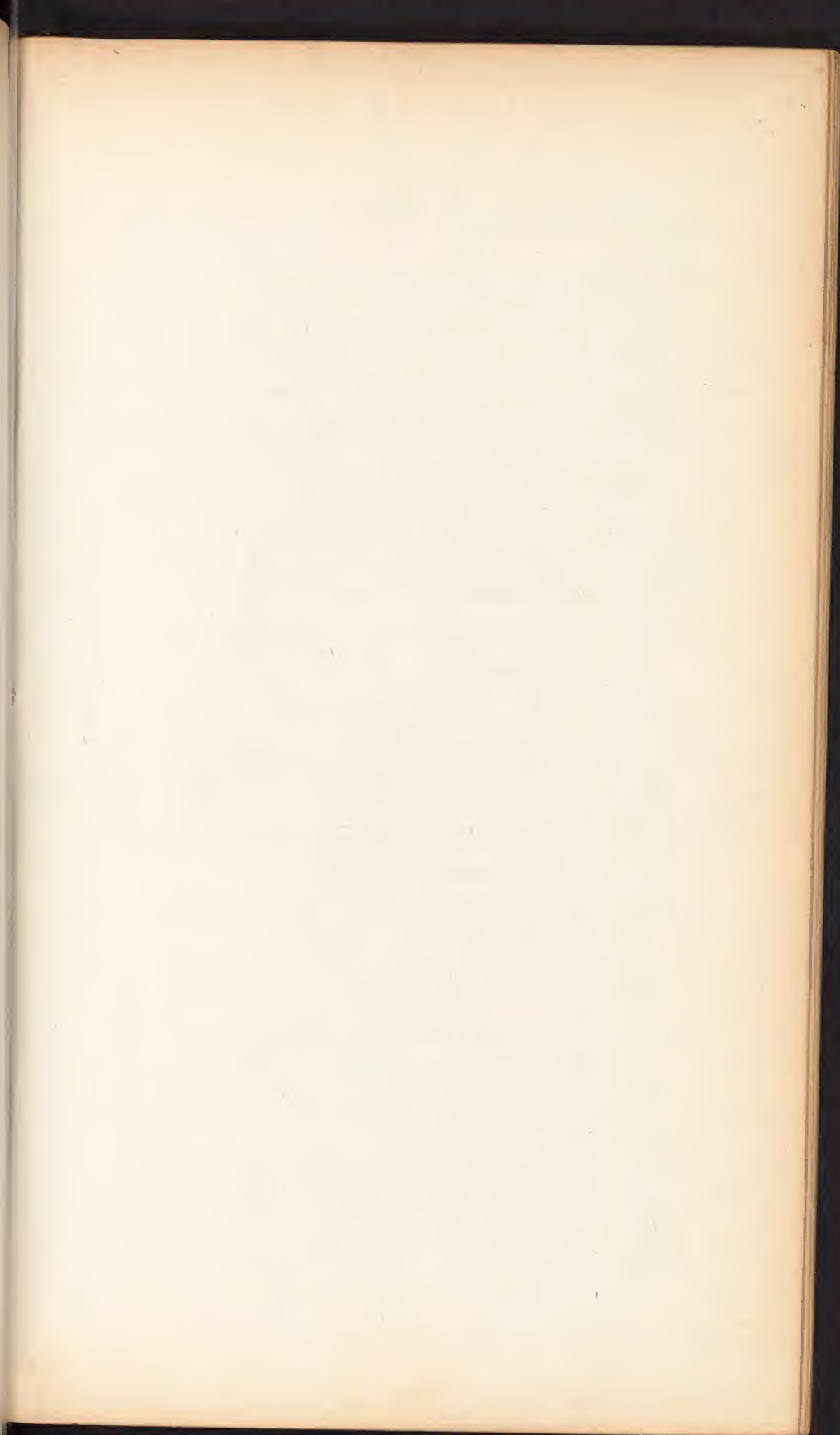
*Diagnosis.*—Talipes equinus I have known mistaken for certain forms of contracted hip and knee.

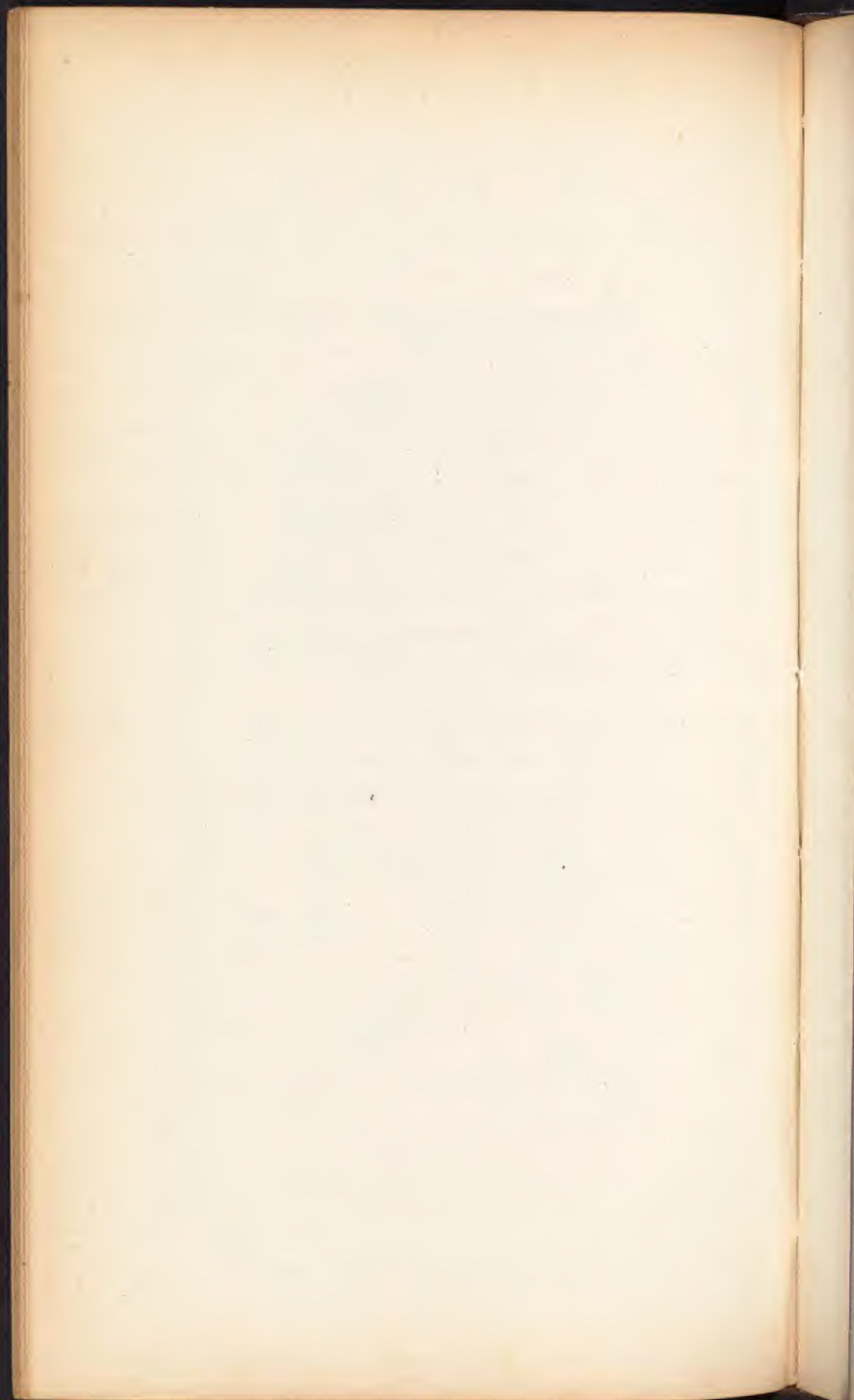
*Prognosis.*—Depends on the *degree of contraction, the variety of the defect, the condition of the bones, the age of the patient, the character of the cause, the complication of the case, and the disposition of the patient to submit to our remedies.*



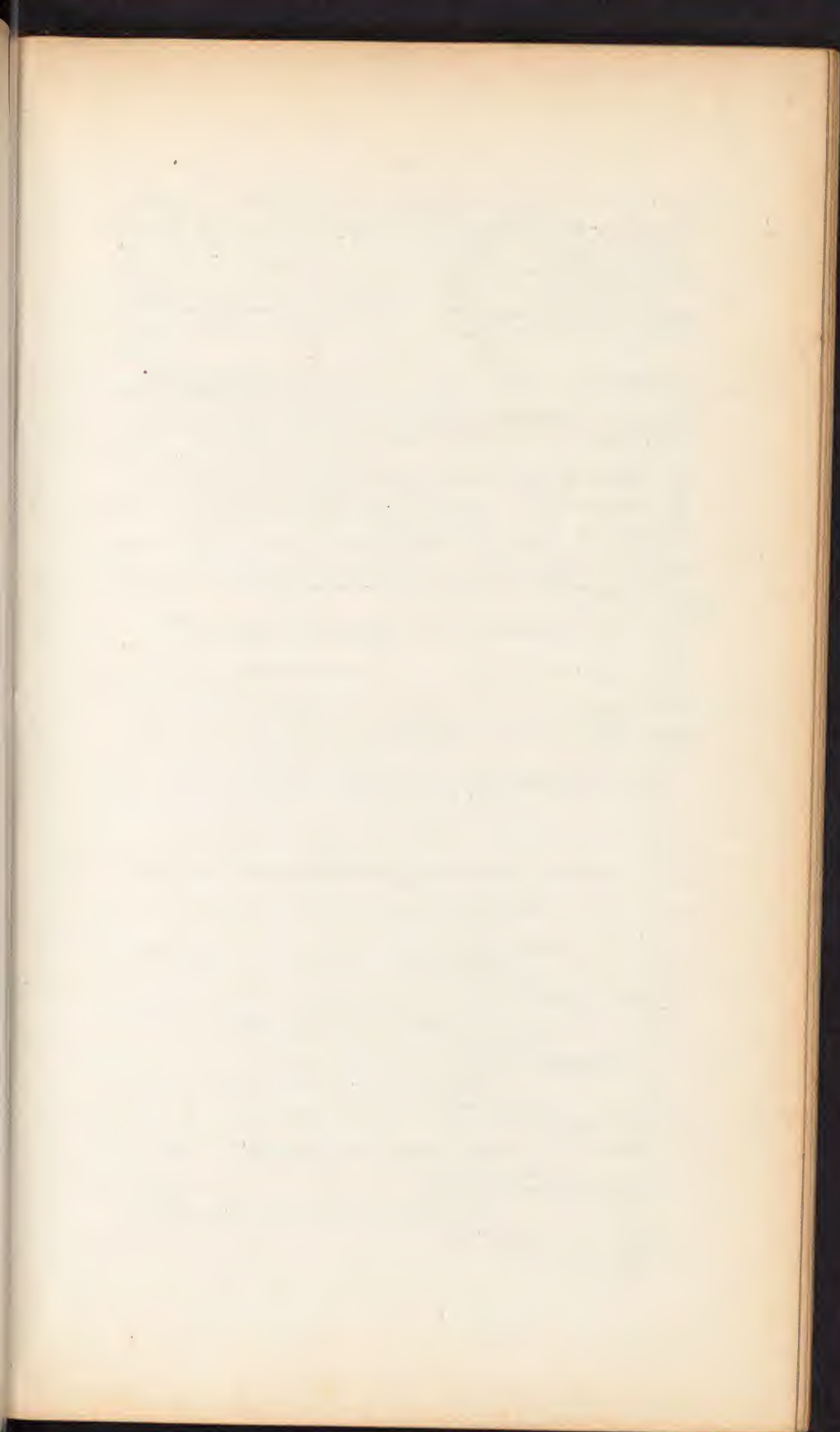














*Treatment.*—1. Prophylactic. 2. Treatment after the defect is fully established. It is rarely possible for us to employ the first, or remove causes operating even after birth. Under the second head several indications present themselves.

These are, 1. The application of such mechanical measures as shall bring the shortened muscles, tendons and fascia, to their proper position.

2. Where mechanical contrivances alone, and unassisted, fail to accomplish the first indication, we may next resort to the *knife, aided by mechanical measures.*

3. The third indication refers to the *retention* of the foot in its proper position, after the tendons, &c., have been elongated.

4. The fourth, to the application of such measures as shall give tone to the weakened muscles, and prevent the recurrence of spasms, or irregular contractions which would cause a relapse.

5. The fifth, to the *preparation* of the patient for treatment. Keeping those indications in view, which obtain in the treatment of all the deformities resulting from this cause, we shall next speak of the plan of treatment best suited to each *variety* of the defect, as it presents itself at *different* ages; but before so doing it will be well to explain the character of certain operations, to which I must refer in the management of the most of these cases. These are

#### MYOTOMY, TENOTOMY, AND APONEUROTOMY.

*The history of these operations.*

*Their importance.*

*Their relative merits contrasted with mechanical treatment alone.*

*The manner in which muscles and tendons are united after these wounds.*

*The dangers of these operations.*

*The question of immediate separation of the divided organs discussed.*

*Manner in which the operation should be performed.*

We are now prepared to take up the special treatment, and first of

#### CONGENITAL VARUS.

1. Congenital varus, 1st, 2d, or 3d degree at birth.
 

"	"	"	"	2d or 4th year.
"	"	"	"	6th, or any subsequent age.
2. Congenital valgus, 1st, 2d, or 3d degree at birth.
 

"	"	"	"	2d or 4th year.
"	"	"	"	6th, or any subsequent age.
3. Talipes equinus, 1st, 2d, or 3d degree at birth.
 

"	"	"	"	2d or 4th year.
"	"	"	"	6th, or any subsequent age.
4. Talipes calcaneous, 1st, 2d, or 3d degree at birth.
 

"	"	"	"	2d or 4th year.
"	"	"	"	6th, or any subsequent age.
5. Talipes dorsalis, 1st, 2d, or 3d degree at birth.
 

"	"	"	"	2d or 4th year.
"	"	"	"	6th, or any subsequent age.



CONTRACTED KNEE.

*Varieties.*

*Muscles and tendons involved in each.*

*Causes of contraction.*—1. Congenital. 2. Acquired.

*Diagnosis.*—May be confounded with the different varieties of ankylosis, dependent on other causes.

*Prognosis.*

*Effects on the joint if neglected.*

*Treatment.*—1. By mechanical means alone. 2. By section of the tendons, followed by the use of mechanical measures.

*Condition of the joints after contraction is overcome, and the treatment required in this stage.*

*Dangers to be apprehended during the treatment of the case.*

CONTRACTED THIGH.

*Varieties.*

*Muscles and tendons involved.*

*Causes of contraction.*—1. Congenital. 2. Acquired.

*Diagnosis.*—Often confounded with coxalgia when the flexors are involved.

*Prognosis.*

*Effects on the joint if neglected.*

*Treatment.*—1. By mechanical means alone. 2. By myotomy, followed by mechanical measures.

*Condition of the joint after contraction is overcome, and the treatment required at this time.*

*Dangers to be apprehended during the treatment of the case.*

CONTRACTION OF THE FINGERS AND TOES.

*Varieties.*

*Muscles and tendons involved in each.*

*Causes of contraction.*—1. Congenital. 2. Acquired.

*Diagnosis.*—May be mistaken for contraction of the fascia palmaris or plantaris, when the flexors are in fault.

*Prognosis.*—Depends on the cause and the degree of lesion sustained by the tendons.

*Treatment.*—Depends very much on the cause; and we may require mechanical means as well as the knife for the relief of the difficulty.

CONTRACTION OF THE WRIST.

*Varieties.*

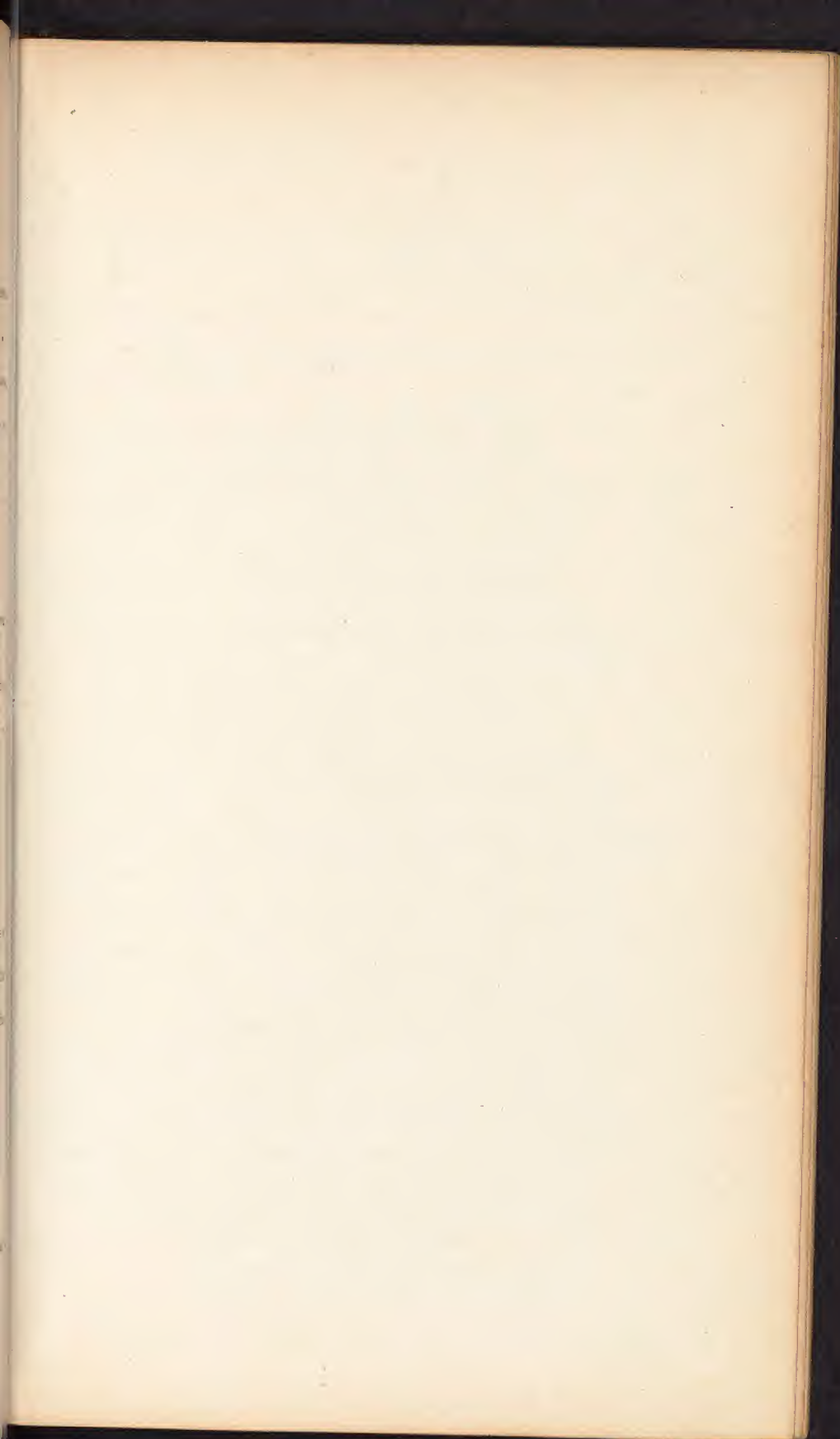
*Muscles and tendons in fault in each.*

*Causes of contraction.*—1. Congenital. 2. Acquired.

*Diagnosis.*

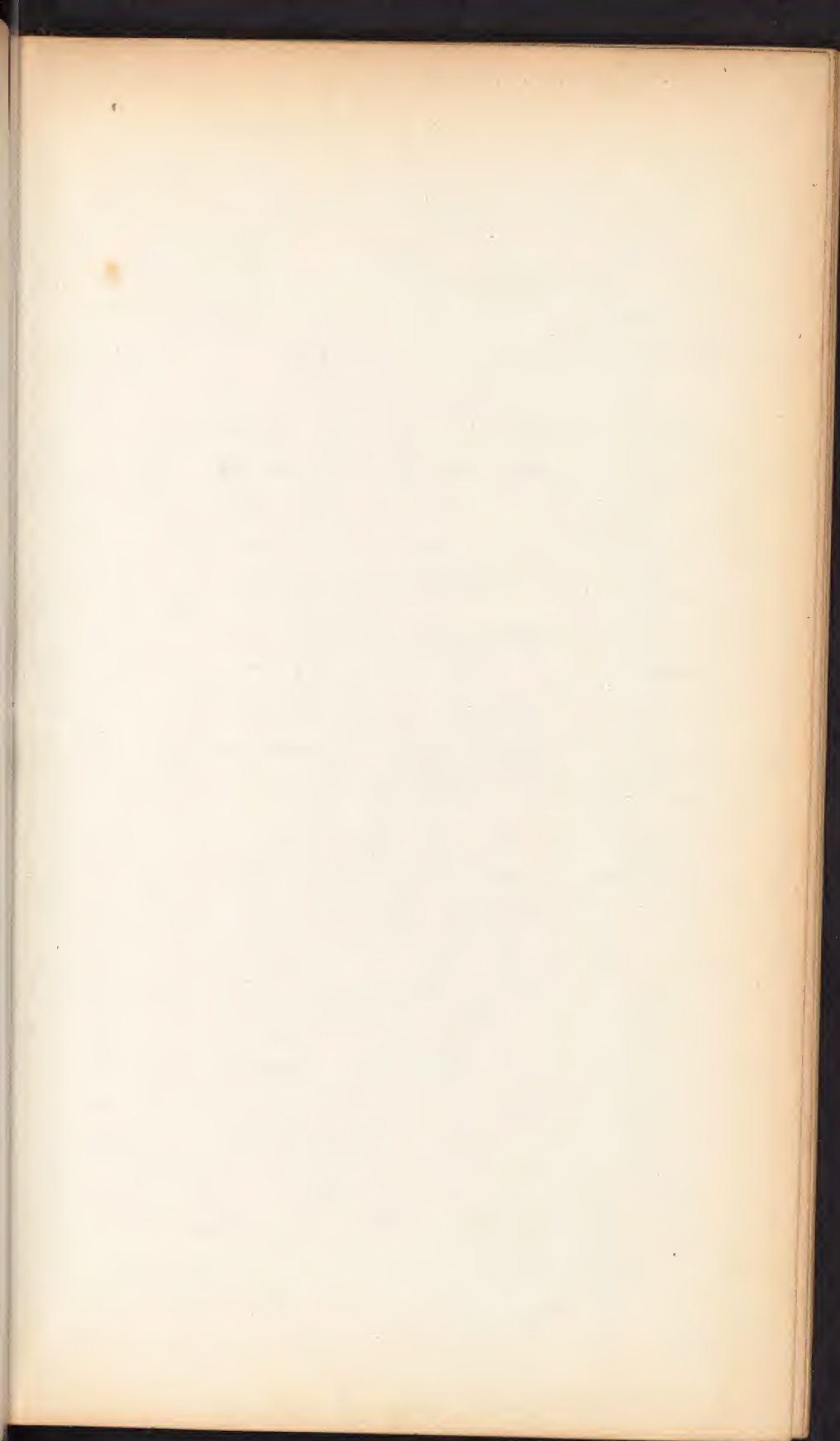
*Prognosis.*—Unfavorable generally.

*Treatment.*—The same general treatment applicable to the other cases of contraction, will answer here.

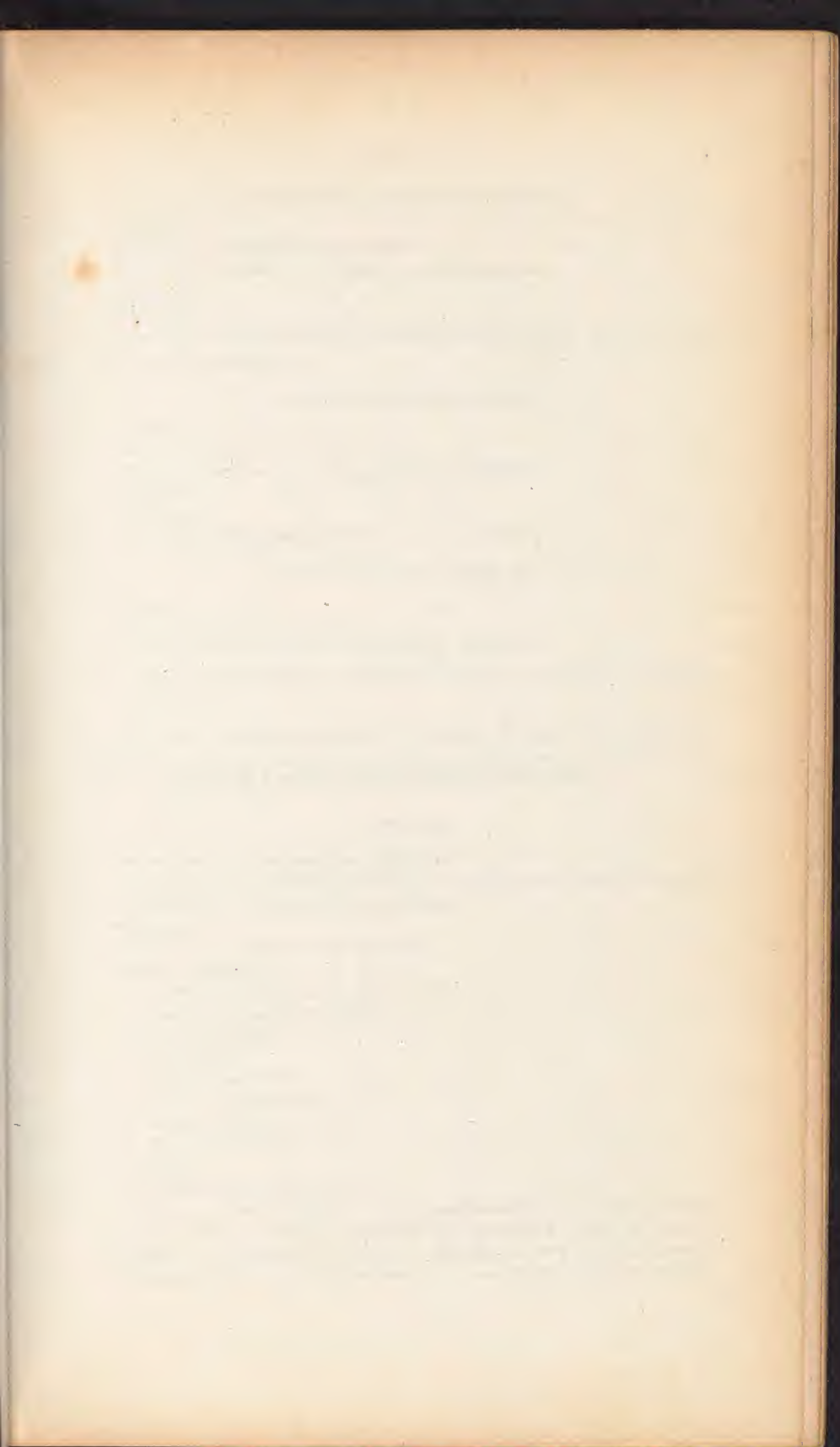
















CONTRACTION OF THE ELBOW JOINT.

*Varieties.*

*Muscles and tendons in fault in each.*

*Causes of contraction.*—1. Congenital. 2. Acquired.

*Diagnosis.*

*Prognosis.*

*Treatment.*—The same general treatment is to be observed here as in the other forms of contraction.

CONTRACTION OF THE SHOULDER.

*Varieties.*

*Muscles and tendons in fault in each.*

*Causes of contraction.*—1. Congenital. 2. Acquired.

*Diagnosis.*

*Prognosis.*

*Treatment.*—The same as above.

CONTRACTION OF THE LOWER JAW.

*Varieties.*

*Muscles and tendons in fault.*

*Causes of contraction.*—1. Congenital. 2. Acquired.

*Diagnosis.*—Not to be confounded with adhesions, contractions from burns, or cicatrices.

*Prognosis.*

*Treatment.*—In almost every case of this defect it is necessary to divide the muscles before the different means usually employed can be used with any effect. (See the cases of Mott, Fergusson, Smythe and myself.)

TORTICOLLIS.

*Synonymes.*—Caput opstipum; wry neck.

*Definition.*—An involuntary and fixed inclination of the head towards one of the shoulders. It is sometimes intermittent.

*Symptoms.*

*Causes.*—1. Congenital. 2. Acquired.

First, or congenital.

a. Muscle or muscles on one side *too short*.

b. Paralysis of one set of muscles.

Second or acquired.

a. Hemiplegia.

b. Chronic rheumatism.

c. Fevers of long standing.

d. Chronic myositis.

e. Mechanical injuries.

f. Habit.

g. Palsy of extensors of the neck.

*Muscles in fault.*—Generally the sterno-cleido-mastoid, but the trapezius, platysma myoid, and, in short, the whole set of muscles on one side may be involved. It is supposed by some to be dependent occasionally on shortening of the *integuments* or *fascia* of the neck, but I have never met with an example.

*Diagnosis.*—May be confounded with *recent palsy* of the muscles, from blows upon the neck; with acute rheumatism; abscess in the neck; caries of the bones; tumors; old luxations; hydrocele of the neck, and curved spine.

*Prognosis.*—Depends on a variety of circumstances. State them.

*Dissection.*

*Treatment.*—Depends on the *cause, parts involved, and the duration* of the disease. Mechanical measures of various kinds, the knife, and constitutional treatment may all be required.

#### STRABISMUS.

*Definition.*

*Muscles, tendons, and fascia in fault.*

*Varieties.*—1. Convergent. 2. Divergent. 3. Upward squint. 4. Downward squint.

The first is most frequent, in consequence of the *internal rectus* being stronger than the *external*, from its insertion being nearer the cornea, and from the natural habit we have of looking *inwards* more than *outwards*.

*Symptoms.*

*Degree.*

*Duration.*—Occasional or permanent. It is also, in some cases, *voluntary*.

*Eye generally attacked.*—According to some, the *right*; according to others, the *left*. Both are often involved.

*Mode of ascertaining which eye is diseased.*

*Effect on vision.*

*Causes.*—1. Congenital. 2. Acquired. 3. Direct. 4. Indirect.

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*—Several indications. 1. Remove the cause. 2. Use mechanical means to correct the deformity. 3. Where these fail, resort to an operation.

*History of this operation.*

*Cases to which it is applicable.*

*Mode of performing it.*

*Treatment after the operation.*

*Dangers of the operation.*

*Change in the muscular attachments.*

*Results of the operation.*—1. Favorable. 2. Unfavorable.

First, or favorable.

a. Disappearance of deformity.

b. Improvement in vision.

Second, or unfavorable—

a. Operation fails to correct the deformity. Why?

b. The eye is everted.

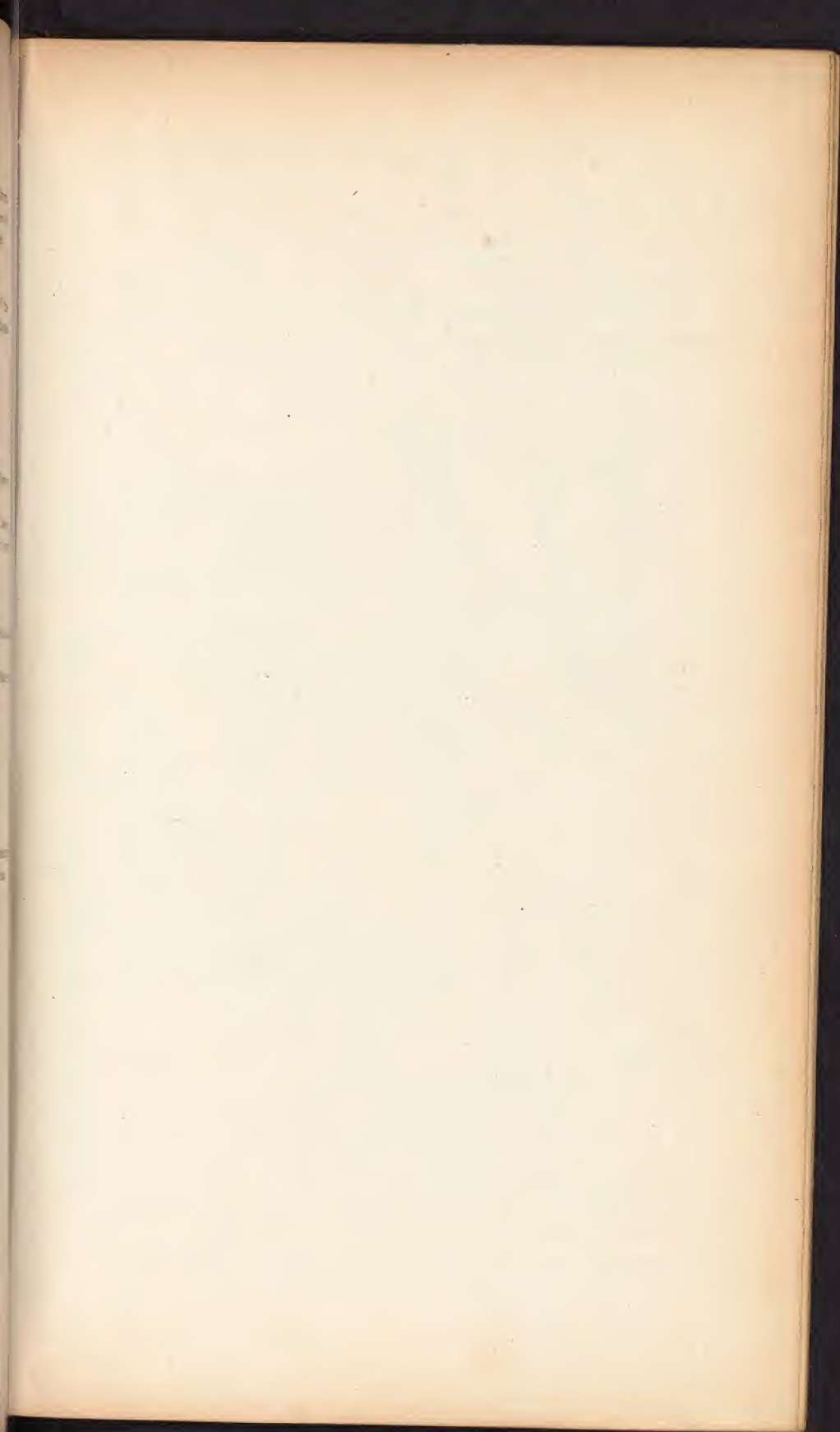
c. The eye projects.

d. A relapse takes place.

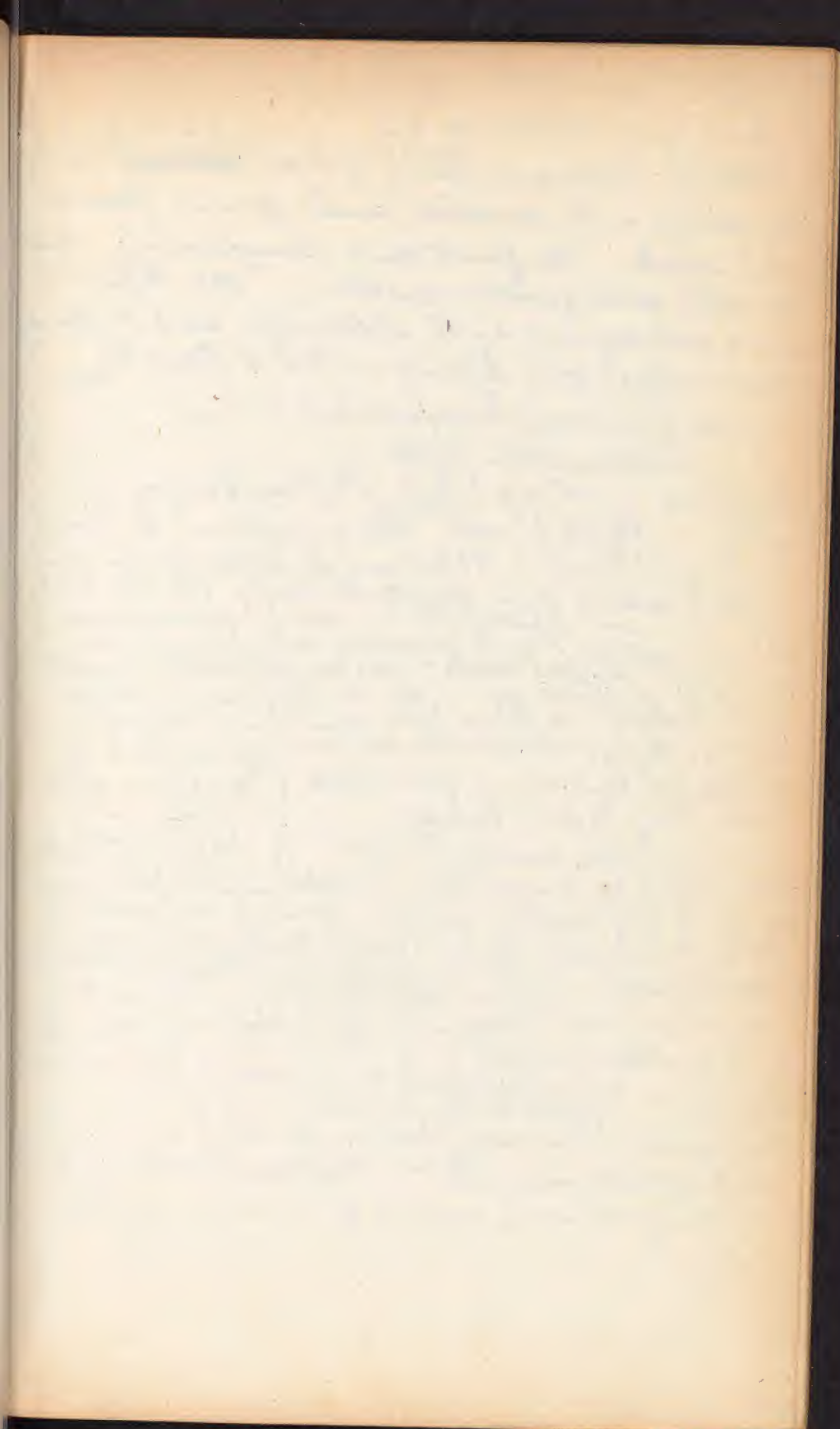
*Methods proposed to overcome these difficulties.*

*Appreciation of the operation.*











KCl. K and HCl = KCl and H...  $KO, CO + HCl$   
 = KCl and KO and  $CO_2$   $6KCl \xrightarrow{2500} 150K_2O$   
 Potash is Iodineum ( $KI$ ) 6 I and ~~150K~~ 150K

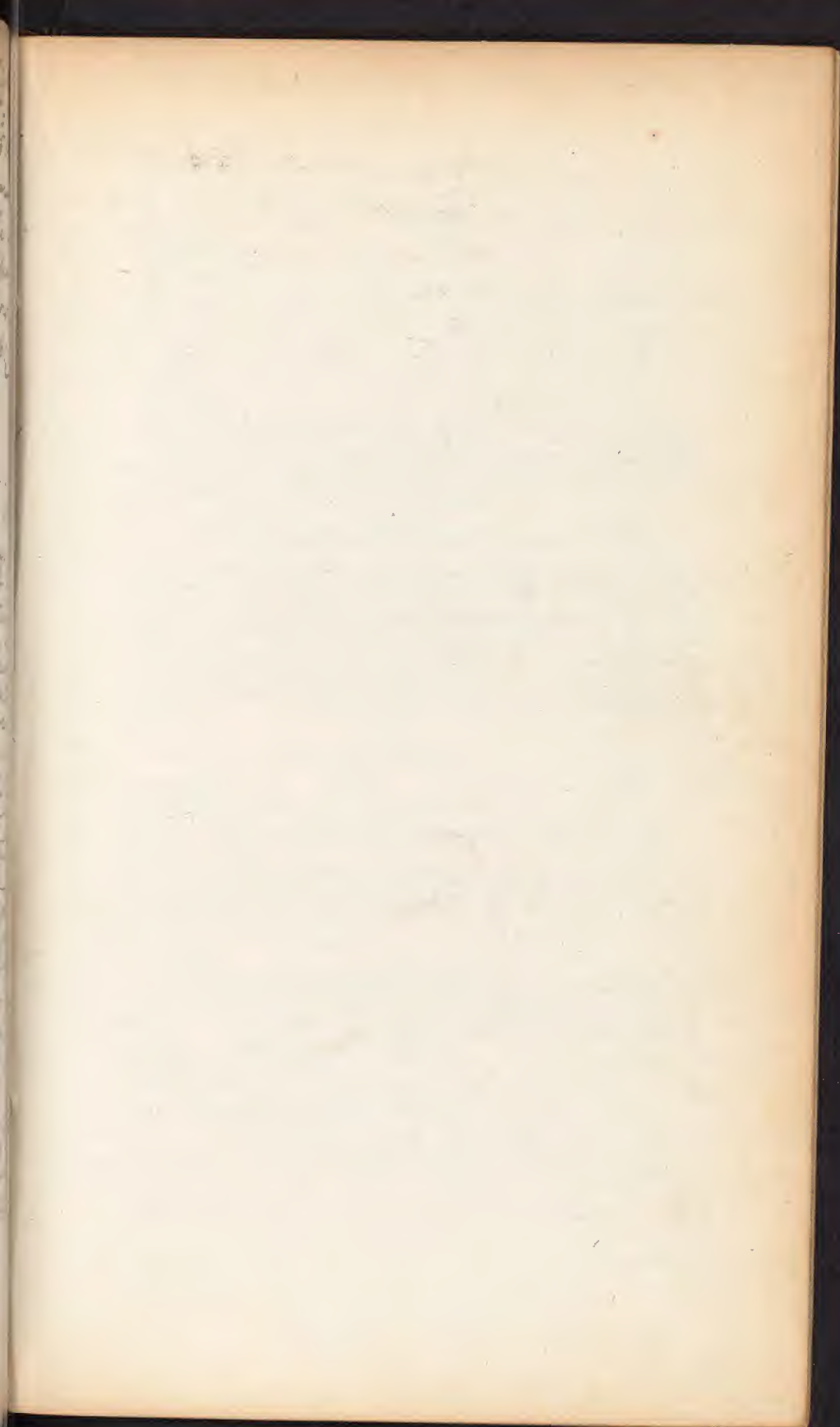
It unites with metals and forms bases and acids - the first are Basifiable and the other acidifiable metals - the Bifluor also are divided into Alkalies and ordinary bases -  $KI$  and  $KO, CO_2 = KI + KO, CO_2$

Liquor Iodini composed of -  
Potash Iod. Comp -

Mercury protox ( $Hg$ ) Hydrag Argenti -  
 made by  $Hg$  and  $KO = HgO$  and  $KCl$   
 $HgCl$  and  $KClO = HgO$  and  $KCl$  the former give  
 greyish protox and Black protox by each other  
 contain protox and metallic mercury in a  
 very finely divided state - as in saturation with  
 a Red Hydrag - a Blue pill and Hydrag -  
 dentox ( $HgO$ ) a Red precip per se a precip of  
 C. Hydr Ox Rubrum - from which  
 comes Hyg-Hydr Ox Rubrum

$HgCl + 2KO$   
 $Hg_2Cl_2$  and  $2KCl$   
 is white

Mercury is purified by heat  
 vapor being condensed before it reaches  
 The top of the mouth utero in form of a powder  
 proto sulphur ( $HgS$ ) when the protox is  
 Bisulphur is often used as sulph. Rubrum US  
 Bisulphur with Sulphur is off Hydrag. big and so  
 and is Ethrops Mineral -  
 Bisulph is called artificial curcubac, from its  
 resemblance - proto sulph is made  
 Bi chloride of mercury contains sub is of -  
 Hydrag Bi chloride US - Hydrag Chloridum  
 solution of ammonia vehicle for aurum sublim.







## LEUCITAS.

*Definition.**Muscles in fault.**Varieties.**Symptoms.**Causes.**Diagnosis.**Prognosis.**Dissection.**Treatment.*

The *third* form of atrophy is exceedingly rare, but when it occurs, it will of course give rise to a loss of function in the part or organ to which the muscle is attached. The deformities to which it gives rise do not differ essentially from those occasioned by *simple atrophy*. (See Mayo.)

## IX. SPASM OF THE MUSCLES.

Spasmodic affections of the muscles are exceedingly common, and referable in most cases, to primary irritation of the nerves of the part; but the disease may originate in the muscle, and gradually extend to the nerves. It is highly important, in forming our diagnosis, to distinguish the true cause, as the treatment chiefly turns upon this point. The permanent defects, resulting from this condition of the muscles, most frequently met with, are certain kinds of stammer, twitching of the muscles of the face, scrivener's spasm, rigid atrophy, and paralysis.

## I. STAMMERING.

*Definition.**Varieties.*—1. Functional. 2. Organic.

*Causes of functional.*—Sometimes inappreciable; spasm of muscles, bad habit from imitation.

*Causes of organic.*—The tongue may be too large, too long, tied, or badly shaped. The fauces and roof of the mouth may also, when deformed, occasion a stammer.

*Diagnosis.**Prognosis.*

*Treatment.*—Various methods have been introduced, but of course the character of the cause will modify the treatment. There are four plans chiefly in vogue:—1. Vocal gymnastics. 2. Speaking with some hard substance between the teeth. 3. Acupuncture. 4. An operation.

*History of these operations.**Different modes of operating described.**Appreciations of these operations.*

## II. TWITCHING OF THE MUSCLES OF THE FACE.

*Varieties.**Causes.**Diagnosis.**Prognosis.**Treatment.*

## III. SCRIVENER'S SPASM.

*Definition.**Causes.**Symptoms.**Diagnosis.**Prognosis.**Treatment.*

## X. ENTOZOOA.

The muscles frequently become the habitations of parasitic animals, and especially of the *Cysticercus cellulosa*, and the *Trichina spiralis*, first described, I believe, by Mr. Owen, of London.

## XI. MALIGNANT DISEASES.

The muscles, like all the other tissues, are liable to be attacked by the various affections to which the term *malignant* has been assigned.

## VII. DISEASES OF THE ARTERIES.

## I. WOUNDS.

*Varieties.*—Penetrating, non-penetrating, punctured, incised, contused, lacerated, &c.

*Symptoms.*—Depend on the nature of the wound, and the size of the vessel.

*Prognosis.*—Depends on character of the wound, size of the vessels, and the diathesis of the patient.

*Diagnosis.*—May be confounded with wounds of veins.

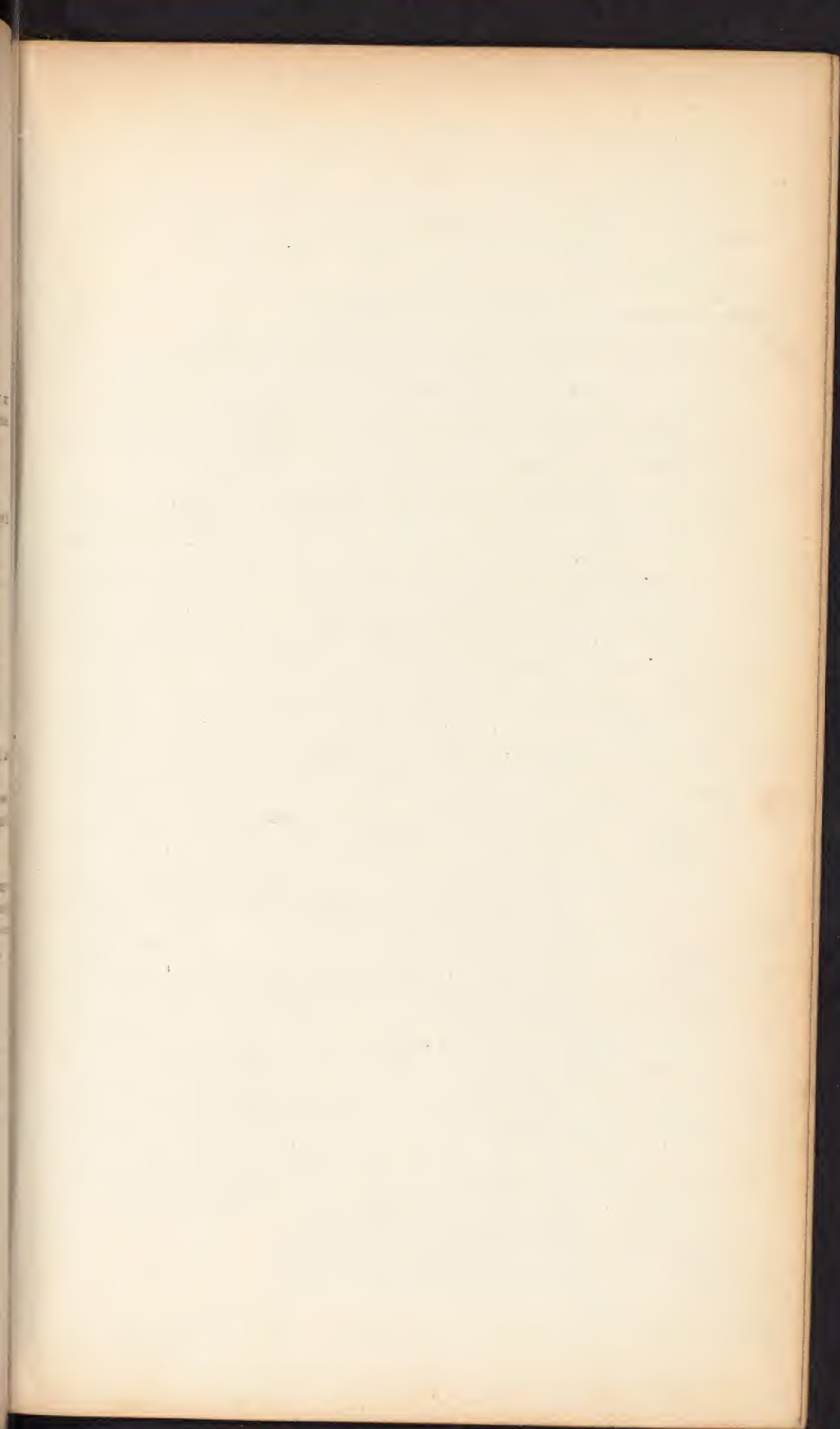
*Results.*—The hemorrhage may cause death, unless arrested by the surgeon, or by an effort of nature; the wound may close, and the circulation continue in the limb, as before; or the circulation may be so much impaired as to occasion gangrene; and finally, aneurisms of different kinds may be developed.

*Mode of healing.*—Varies with the kind of wound.

*Treatment.*—See incised wounds.

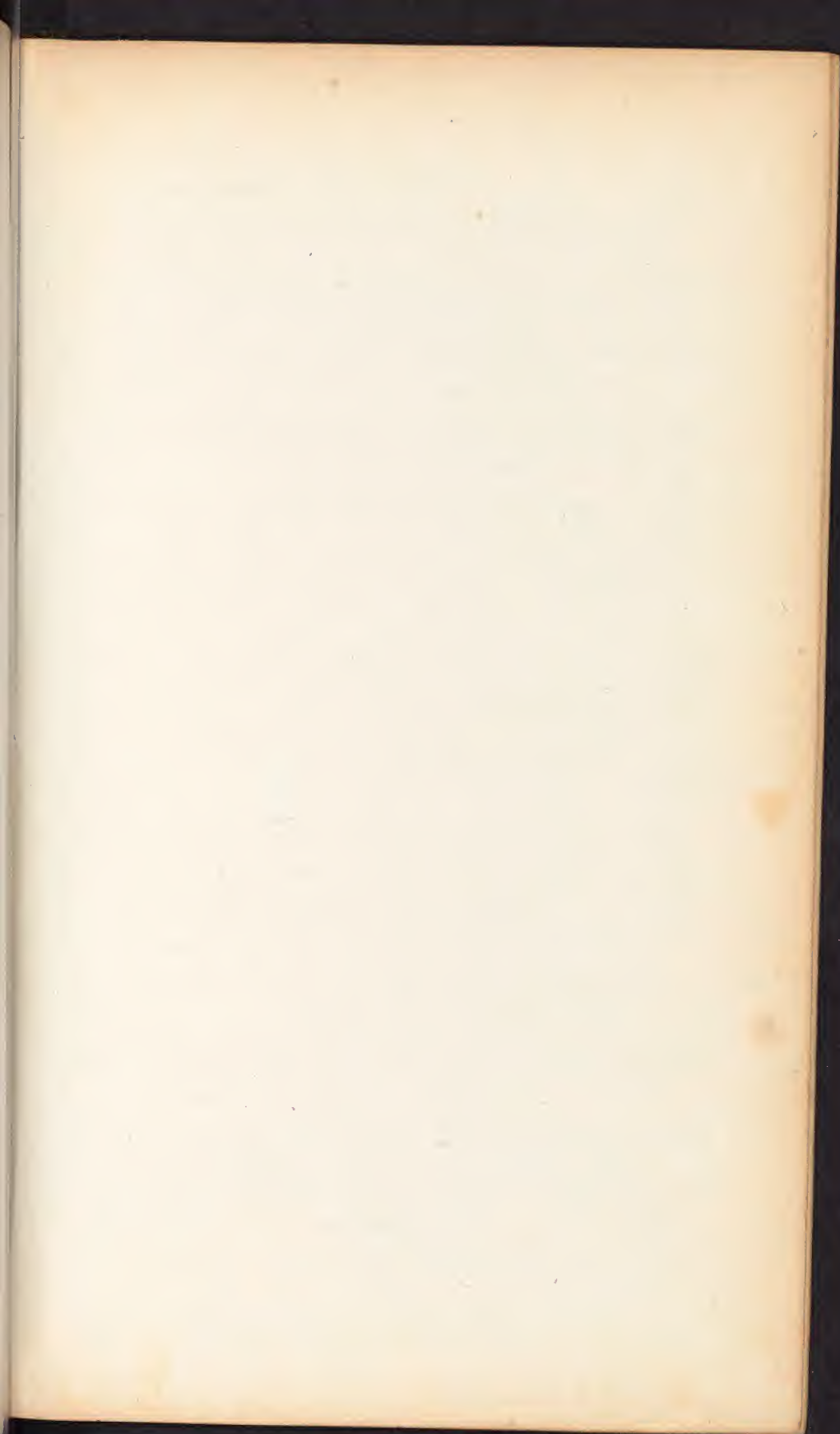
## II. ARTERITIS.

*Definition.**Comparatively rare.**Varieties.*—1. Subacute. 2. Acute. 3. Chronic.*Causes.**Symptoms of each variety.**Diagnosis.**Prognosis.**Dissection.**Products.**Treatment.*



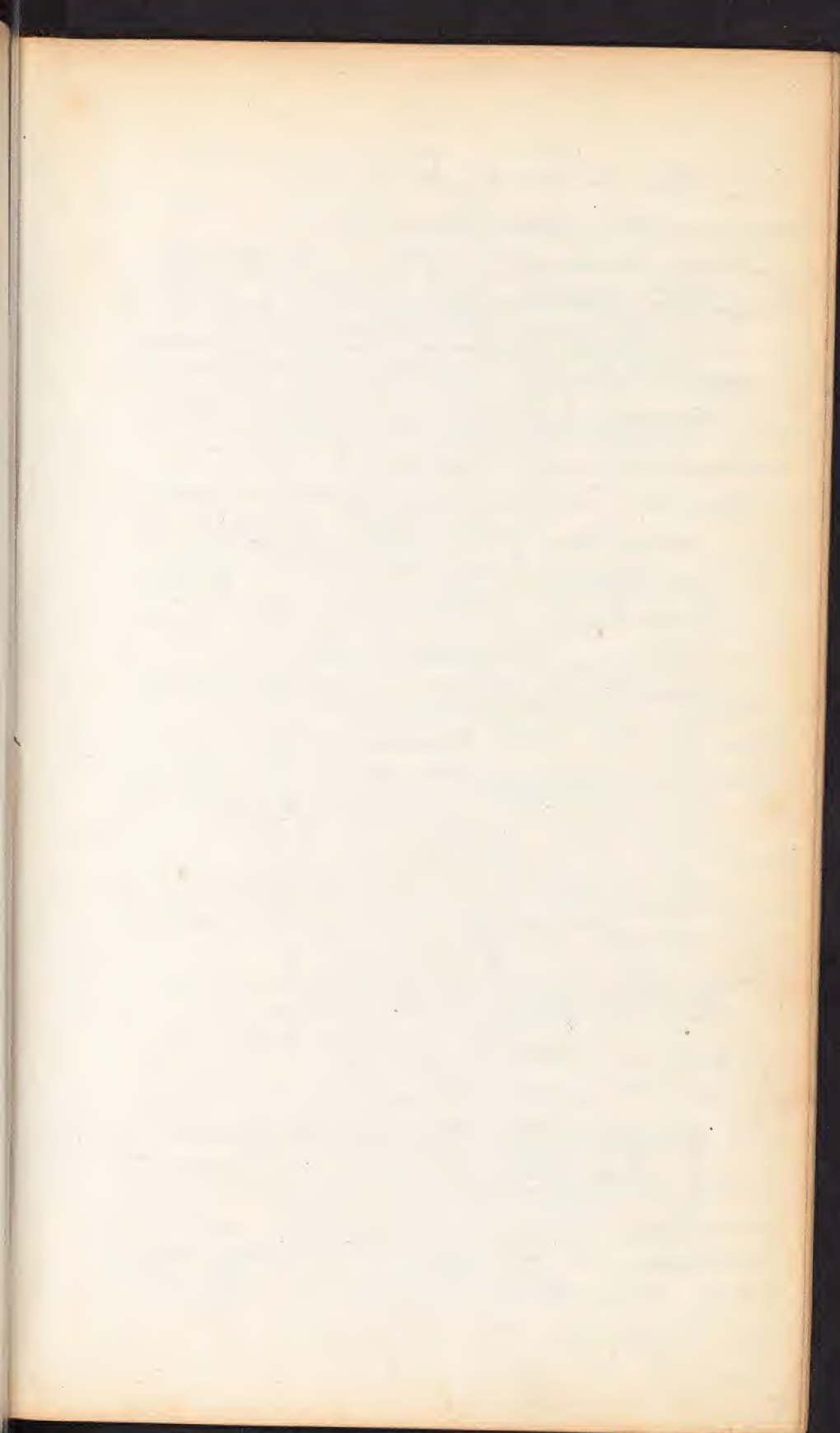












Aneurism a tumor filled with blood and  
communication directly or indirectly with an  
artery - 1. 2. 3. Internal & External 4.  
True aneurism where blood is contained  
in one or more of the coats great diversity  
of opinion among pathologists differ, one may  
have any one coat - or all of them - forming the  
investing sac - an artery may be dilated but  
yet may not be aneurism - have a circumscribed  
tumor - consisting of all coats of vessels & false  
membrane around the cause from pressure  
the blood being outside the coats of vessel  
and forming its sac true - Mixed  
is composed of true & false where the  
true bursts and a false aneurism  
is formed in consequence 9. Diffused  
Circumscribed & Dissecting - 2 per C -  
must be owing to force where the  
limits are easily defined most simple  
and easy of treatment - Diffused  
where blood is thrown out and diffused  
in the limb - Dissecting generally  
occurs in aorta where one blood  
first the aneurism forms and bursts  
and dissecting the coats of the artery  
must like the patient a small opening  
puncturing blood to get out. Into  
Venous aneurism & Aneurismal  
vary this last generally developed  
by bleeding via lancet passes  
through the vein the two grow together

## III. DEGENERATION OF TISSUES.

The arteries undergo a variety of pathological changes termed "*degenerations*," the causes of which are often obscure, but usually may be referred to the pre-existence of inflammation. The most common of these degenerations are: 1. Cartilaginous or osseous deposits between the lining membrane and the proper tissue of the vessel. 2. Thickening of the lining membrane. 3. *Ætheromatous* deposits in different portions of the vessel. 4. Steatomatous deposits. 5. Ulceration. 6. Softening.

*Diseases produced by these changes.*—1. Dilatation; 2. Hypertrophy with dilatation; 3. Contractions; 4. Rupture; 5. Obliteration; 6. Aneurism.

## DILATATION.

*Parts of the vessel usually involved.*

*Vessels most liable to be affected.*

*Effect on the shape and size of the vessel.*

*Symptoms by which it may be recognized.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

## HYPERTROPHY WITH DILATATION.

This condition is seen in the uterine arteries during utero-gestation, in aneurismal varix, and in aneurism by anastomosis or vascular *nævi*.

## CONTRACTION.

A diminution in the capacity of an artery has been observed by Morgagni, Desault, Laennec, Mayo, Elliottson, Baillie, and others. The defect is usually met with in the larger vessels.

## RUPTURE.

This is the result of some mechanical cause operating upon a vessel weakened by some of the different forms of degeneration. Its occurrence may result in the death of the individual, or the establishment of an aneurism.

## OBLITERATION.

A variety of causes may produce obliteration, but inflammation may be considered the most common. The results of this condition of a large artery, are *gangrene*, *paralysis*, and sometimes death.

## IV. ANEURISM.

*Definition.*

*Varieties.*—1. Spontaneous. 2. Traumatic. 3. Internal. 4. External. 5. True. 6. False. 7. Mixed. 8. Circumscribed. 9. Diffused. 10. Dissecting. 11. Varicose. 12. Aneurismal varix. 13. Aneurism by Anastomosis.

*Breschet's classification.*—1. Sacciform. 2. Fusiform. 3. Cylindroid. 4. Varix like.

*Number.*—Varies in different individuals. Usually but one. May have several, as in the cases of Pelletan and Cloquet.

*Causes.*—1. Predisposing. 2. Accidental, or proximate.



First, or predisposing:

- a. Disease of the coats of the vessel. (See degenerations.)
- b. Sex. Male most liable.
- c. Age. Old persons most liable.
- d. Location of vessel. Vessels of the lower limb most liable.
- e. Vocation. Laboring classes most liable.
- f. Size of the artery. Large more frequently affected than the small.

Second or accidental.

- a. Some violent exertion.
- b. Wounds.
- c. Ulceration of the coats of vessel.

*Symptoms.*—1. Constitutional. 2. Local. Both classes modified by the location, variety, size, and duration of the tumour.

*Diagnosis.*—The diagnosis is not difficult in the early stages of the complaint. As the tumour becomes solid it is more uncertain. An aneurism has been confounded with an abscess, tumours of different kinds situated near large arteries, dilatation of Arteries, and diseases of different organs.

*Prognosis.*—Influenced by circumstances. It is, under all circumstances, however, to be considered a most formidable disease—usually requiring an operation for its relief, although nature is occasionally competent to the task of “spontaneous cure.”

*Progress of the disease.*—Great diversity in this respect. Sometimes it runs its course rapidly; and again, years may elapse before a fatal result takes place.

*Effects of an aneurism on surrounding structures.*

*State of the blood in the aneurismal sac.*

*Changes which take place in the sac as the disease advances.*

*Terminations of the disease.*

- a. Spontaneous cure.
- b. Death from hemorrhage.
- c. Death from exhaustion.
- d. Death from direct influence of the tumour upon some vital organ, as the brain, &c.

*Processes by which a spontaneous cure is accomplished.*

- a. Obliteration of the sac by concrete fibrine.
- b. Obliteration of both sac and artery by fibrine.
- c. Pressure on the trunk of the vessel by the tumour itself.
- d. Inflammation, suppuration, and sloughing of the sac, and a portion of the artery.

e. Bursting of the sac, the effusion of blood under the adjacent tissues, and the subsequent coagulation of this blood, which, pressing upon the artery, causes its obliteration.

*Treatment.*—The indication in the treatment of every case of aneurism of the usual kind, is to cause an obliteration of the artery involved. To carry this indication into effect, two general modes of management have been introduced:—

1. The first has for its object the diminution of the force of circulation, so that the blood may coagulate in the tumour, and the artery contract.
2. In the second we attempt a complete arrestation of the circulation through the part, by the obliteration of the vessel by some mechanical measure or surgical operation.

and give rise to a pulsating tumor - the  
pulsation being in the center -  
communication being in direct continuity  
a tumor between the two - an  
last aneurism by anastomosis - it  
is an erectile tumor - consisting of an  
collection of vessels held together by  
cellular tissue - Broussier has taken  
the shape of tumor as a base of classifi-  
cation for nothing. No of tumors is vascular in false  
extravascular generally have but one but if Spont  
aneous may have several, have cases of aneurism  
mal death the treat with tumor on it. Treat  
division into 2 groups Endog and Exogenous aneurism  
where the aneurism is true it is Endog where  
false it is Exog - Causes Predisposing and  
Exciting - 1st for Predis - a disease of vessels fatty  
degen - b - sex males more exposed C - Age nearly  
always spontaneous in old. d - location of vessels in  
lymphatic in diagnosis - e - location of vessels in  
and strong predisposing - f - size larger more  
number 2 - Exciting causes a formation of blood  
clot sometimes located at way pulsation of heart  
shut out that heat is broken. b - some with  
a - wounds, c - ulceration of canals - Symp  
Caus - 1 - Local. 1. In traumatic aneurism  
no constitutional disturbance unless formation  
in consequence of pressure of tumor. 2nd  
has an indurible lymphatic melanosis and  
the greater extent in small cases  
with constitutional symp are uniform  
local phenomena - pulsation and a  
peculiar throb gives pain sometimes and  
in early stages always rays in Ray's  
pain of pressure on the nerve



when can cause the pulsation of  
tumor to cease by pressure on  
the artery — though sometimes the  
diagnosis can not be certain  
though pain is present in all cases but in  
some more grave than in others  
when depends on some constitutional  
cause don't commit yourself in prog-  
nosis — Progress usually slow coming on  
for many years — may have it develop  
rapidly as it grows forms adhesions and  
parts adherent are gradually absorbed  
in consequence of the pressure of the  
blood by progressive absorption — a common  
result — as tumor grows through the bone  
the integuments form adhesions which  
become discolored and in course of time  
it gives way — as it increased in size  
the blood becomes deposited and even  
sometimes effects a spontaneous cure,  
Termination a — is very rare owing  
to a coagulum filling up the opening  
of sac — the film may be deposited to  
such an extent that blood cannot  
get into it, occasionally when inflam-  
mation sets in and the lymph poured may  
fill up the sac and accomplish a  
radical cure, Sloughing may cure  
it the slough separating giving rise  
to lymph — b — when left to itself generally  
terminates in death — by hemorrhage never  
trust to mature c — the tumor in chest may  
compress stomach and he may die from  
exhaustion

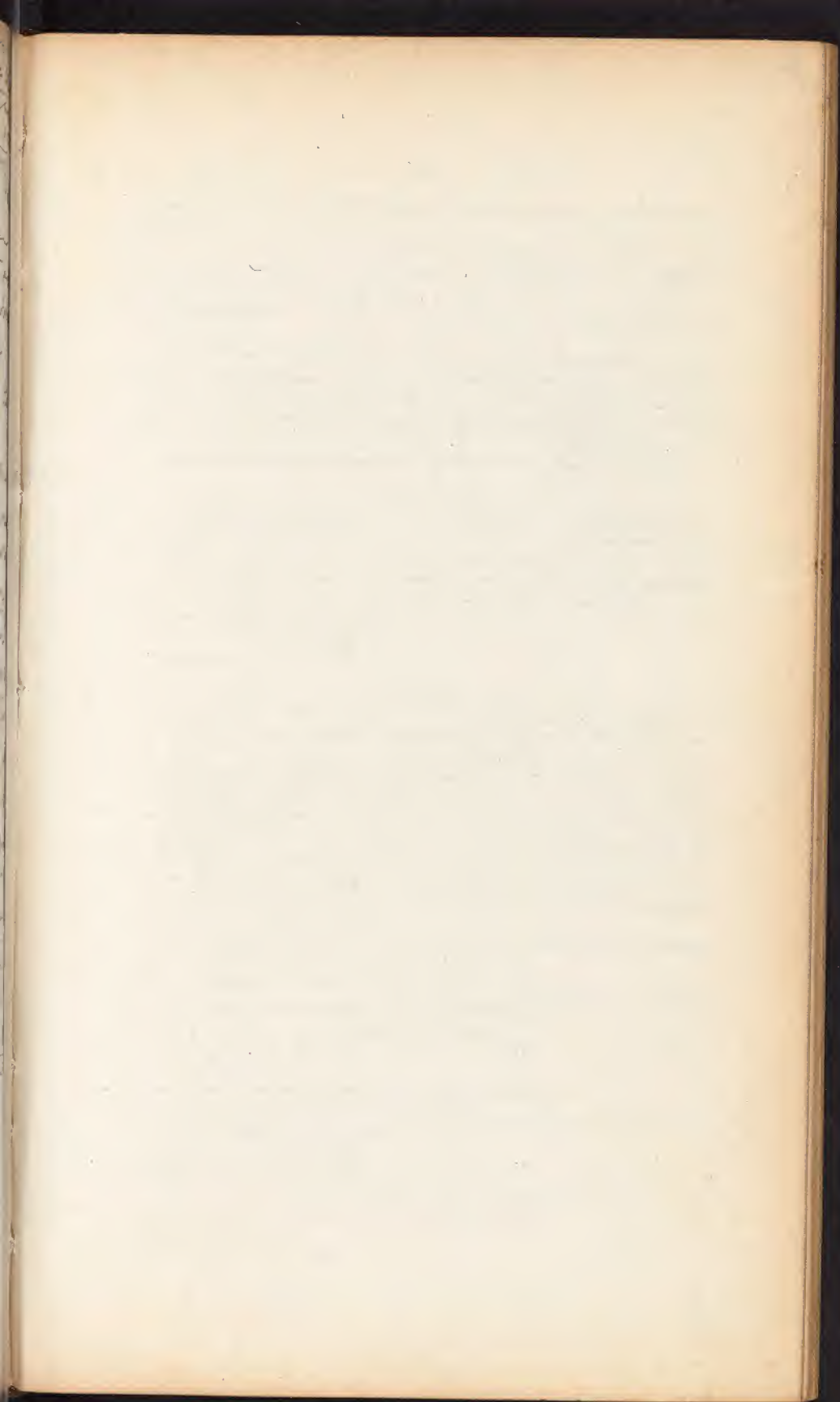


Treatment - never treat if he has any other disease of serious nature - And in treat no expect to cut off supply of blood may take away gradually or at once - a diminution of the force of circulation is sometimes the only plan

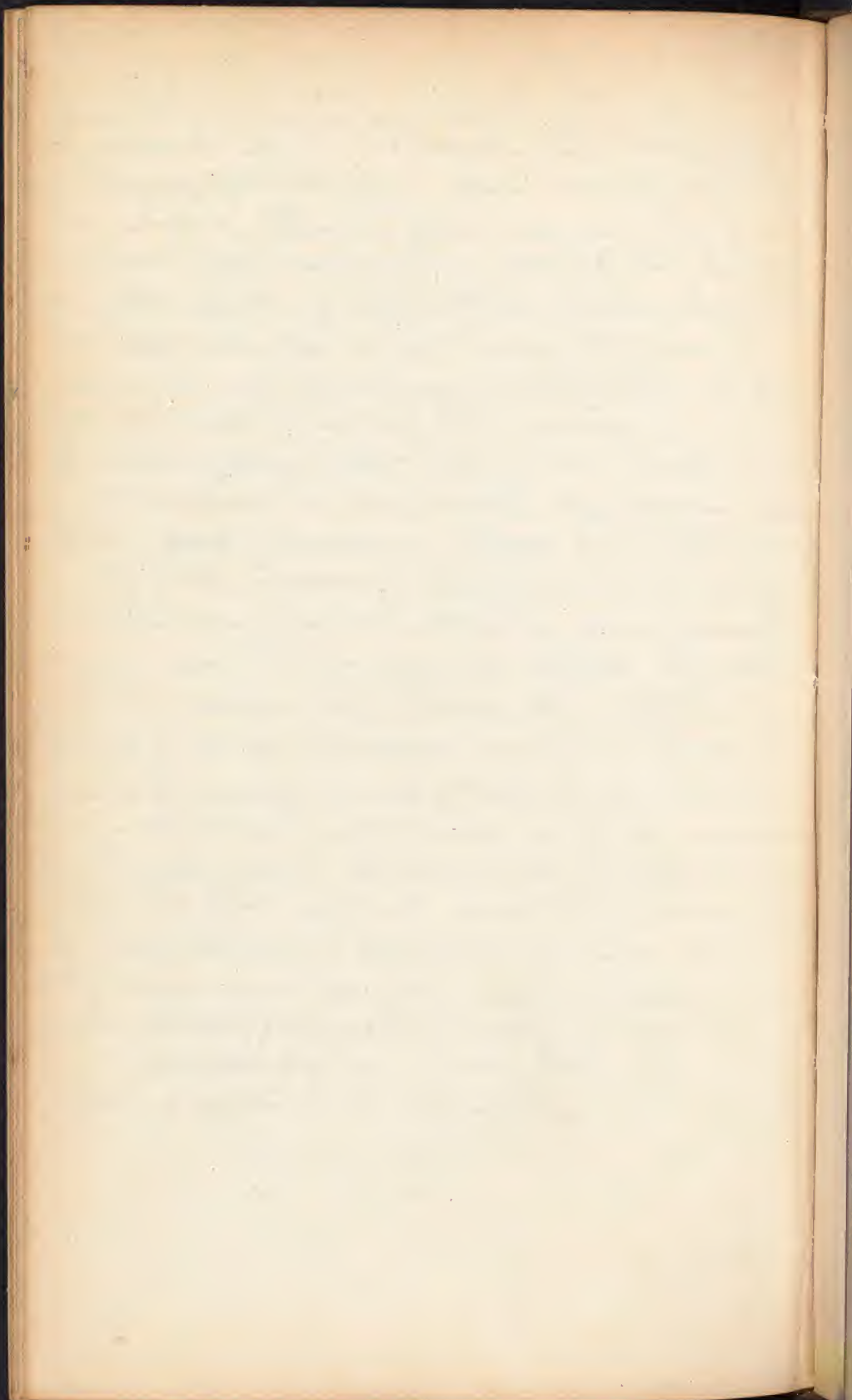
Treatment of Balahea to internal aneurism diminish the aneurism action of heart put the patient to bed and strive him nearly to death never give him more than 3 or 4 oz of food at time abstract fluid and hence keep away water let him suck a piece of ice and let abstract blood and give internal acetate of lead opii if it purges or gripes aid by small doses of Digitalis don't bleed continually if full and plethoric bleed several times Local application of tumor painful and long section of Dr. Harrison passing through the artery - This is the operation in all internal aneurism - Surgical measures - Compress old of all in a variety of ways in cardiac side and has again been used in the opposite Inflammation and sloughing always results in this plan - 1843 - Dr. Busch Gillingham introduced alternate compression object to diminish almost entirely - In aneurism by Compressors use the tourniquet of Chambers - put one pad on artery and other on opposite side of the limb one below and the other below - loosen one and tighten the other alternately while the patient can bear it use a roller bandage between the two to prevent the swelling of the limb, excellent plan acts by throwing the blood into an extensive circulation and aids by pre paring limb

for an operation since should always  
employ this first - Leg was not well  
understood until time of Hunter the  
operation before him the operations were  
very rude and dangerous consisting  
of opening the artery and applying the  
hot iron - Hunter's operation was a lig on  
cardiac side sometimes can't tie the art  
on other side where this can't be done  
Wardrop's method next in vogue  
Anastomosis its necessary sometimes to tie  
both above and below the artery

Hunter's operation - Lay down a rule make  
as little dissection as possible we cannot  
destroy vasa vasorum - tie as near tumor  
as possible to prevent the possibility of an  
anastomosing branch passing over and  
giving rise to hemorrhage & where the art  
branches above the tumor, see that the  
patient is in such a position that the  
pulsation will go on favorably - Ties  
when art laid bare pass lig by an animal  
needle tie above tumor - the effect on  
tumor is with shrink pulsation with ease  
the limb gets cold, little pain in tying and  
little inconvenience from 2 to 24 hours the  
limb gets hot just warm limb in cotton  
and cover the patient don't take off the  
cotton Keep the limb elevated -







*First, or, as it is called, the method of Valsalva.*—Agents employed under this head—

*General remedies.*—1. Barely sufficient nourishment to support life. 2. Rest in the horizontal position. 3. Small quantity of fluid in the diet. 4. Digitalis and the antimonial. 5. Venesection.

*Local remedies.*—1. Leeches. 2. Astringents and refrigerants. 3. Ice. 4. Long seton.

*Second method.*—Agents employed under this head—1. Compression. 2. Ligature of the vessel or vessels. 3. Application of the actual cautery—(employed by Severinus, Monteggia, Sir E. Home, and others.) 4. Injecting the sac with some fluid which produces coagulation of the blood—(proposed by Wardrop.) 5. The introduction of needles, or a seton, into the sac—(Pravaz, Philips, &c.) 6. The use of needles and galvanism at the same time—(Keate and Faraday.)

#### COMPRESSION.

*Mode of applying compression.*—Two or three methods—1. That of Vernet, on the capillary side of the tumour. 2. That of Guatanni along the artery, above the tumour, and on the tumour itself. 3. General pressure over the whole limb.

*Agents employed.*—Tourniquet, bandage and compress, starch bandages; plaster of Paris mould, compressor of Dupuytren, compressor of Sunflo, &c.

*Modus operandi of compression.*

*Objections to its employment.*

*Appreciation of the method.*

#### LIGATURE.

Not properly employed until the time of Hunter. Before this period the operations for the cure of aneurism were rude and dangerous. By some, the sac was opened, the contents turned out, and compresses or the actual cautery applied to arrest the hemorrhage. By others, the sac was emptied, and then an attempt made to tie the bleeding vessels. By others, Aetius, Philogius, Guillemeau, &c., the artery was tied above and behind the tumour, the latter then opened, and the vessels tied. The dangers of these measures have induced surgeons to abandon them, and we now choose, when an operation is decided upon, between three different methods of applying a ligature. These are—

1. The operation of Hunter. The ligature is here placed on the cardiac side of the tumour, or above the sac.

2. The operation of Brasdor. The ligature is here applied on the distal side of the tumour, or between it and the capillaries.

3. The operation of Wardrop. The ligature is here applied to a branch of the diseased artery on the capillary side of the tumour.

#### HUNTER'S OPERATION.

*Mode of performing it.*

*Instruments required.*

*Cautions to be observed in the application of the ligature.*

*Immediate effect upon the tumour when the ligature is properly placed.*

*Subsequent effect on the tumour.*

*Immediate effect on the limb.*

*Subsequent effect on the limb.*

*Time required for the establishment of anastomosing circulation.*

*Effect on the general System, and especially the brain.*

*Dressing the wound.*

*After treatment of the case.*

## BRASDOR'S OPERATION.

*Mode of performing it.*  
*Instruments required.*  
*Cautions to be observed in the application of the ligature.*  
*Immediate effect upon the tumour.*  
*Subsequent effect.*  
*Immediate effect on the limb.*  
*Subsequent effect.*  
*Time required for the establishment of the anastomosing circulation.*  
*Effect on the general system.*  
*Dressing the wound.*  
*After treatment.*

## WARDROP'S OPERATION.

*Mode of performing it.*  
*Instruments required.*  
*Cautions to be observed in the application of the ligature.*  
*Immediate effect on the tumour.*  
*Subsequent effect.*  
*Immediate effect on the limb.*  
*Time required for the establishment of the anastomosing circulation here.*  
*Effects on the general system.*  
*Dressing the wound.*  
*After treatment.*  
 Accidents which may follow the performance of either of these operations :  
 a. Convulsions.  
 b. Fever.  
 c. Secondary hemorrhage.  
 d. Increase in the size of the tumour.  
 e. Rupture of the sac.  
 f. Gangrene of the tumour.  
 g. Gangrene of the limb.  
 h. Chronic inflammation and subsequent ulceration of the artery or sac.  
 i. Plethora.  
*Peculiar advantages of the different operations discussed.*

## CAUTERY—INJECTION—NEEDLES—GALVANISM AND ACUPUNCTURE.

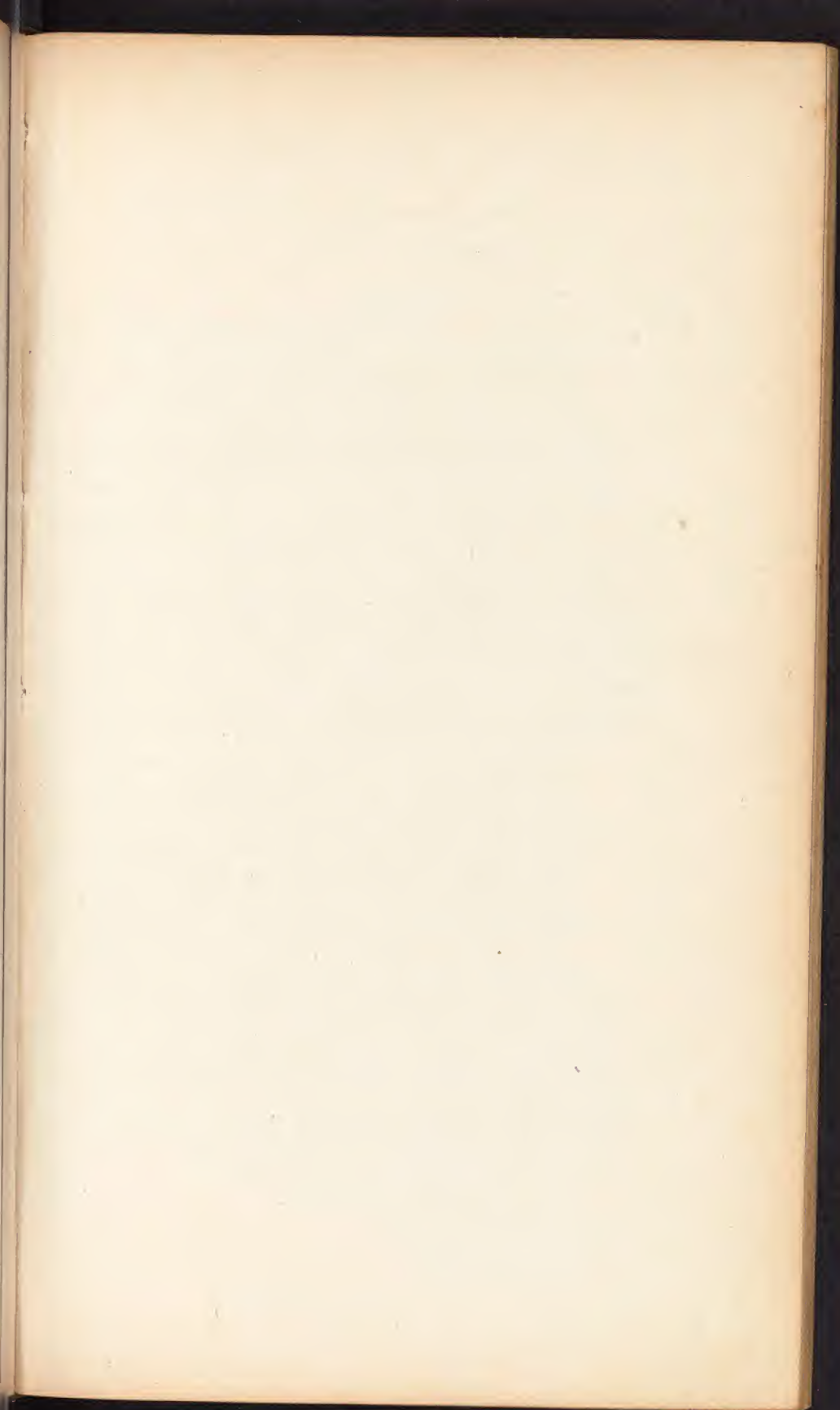
These different modes of treatment have recently been introduced into general practice, and, although one or all may prove more or less useful as adjuvants to other remedies of more importance, it is hardly probable that any thing more than this will ever be claimed for them.

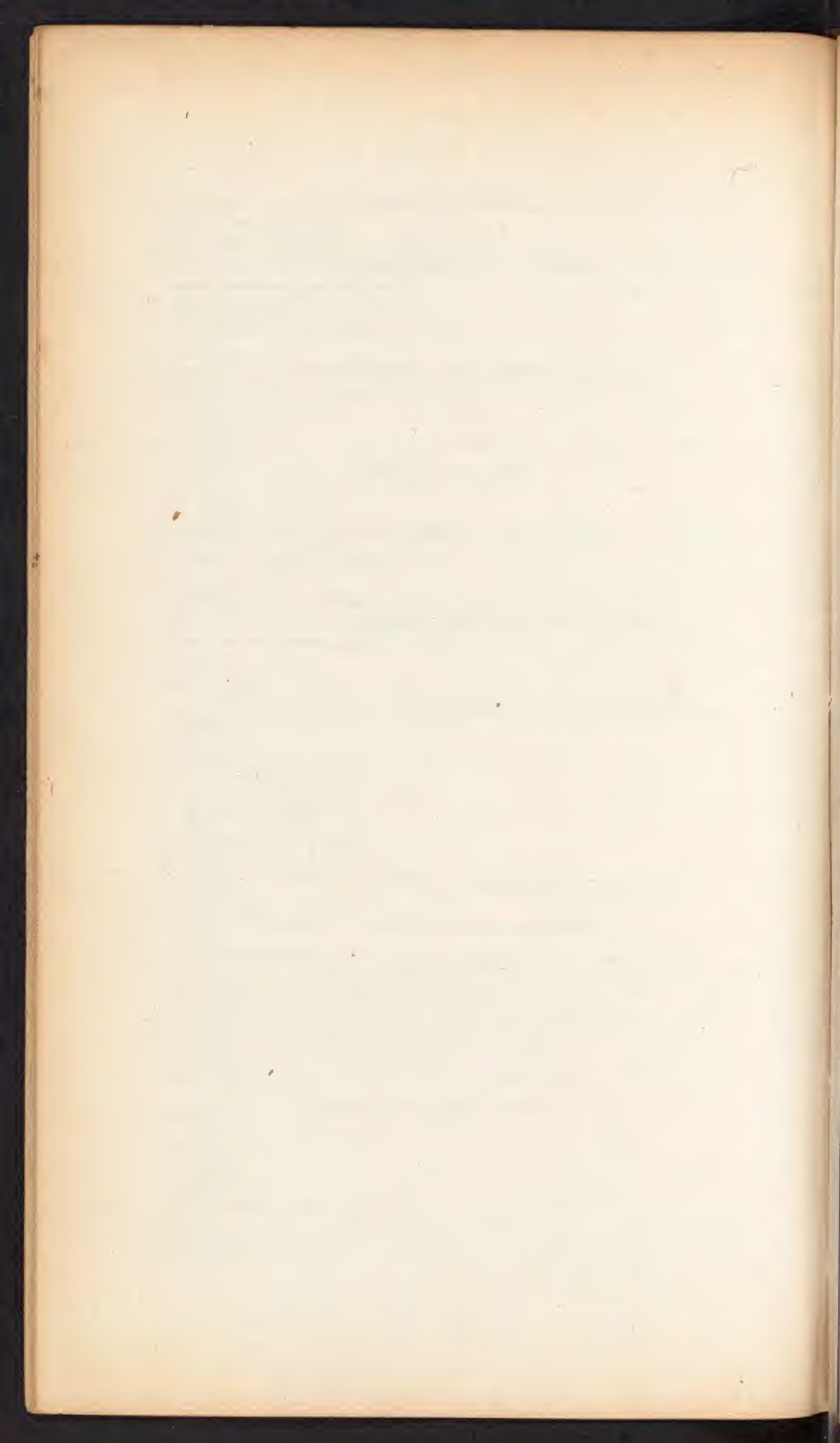
*Appreciation of all the various methods of treatment for aneurism.*

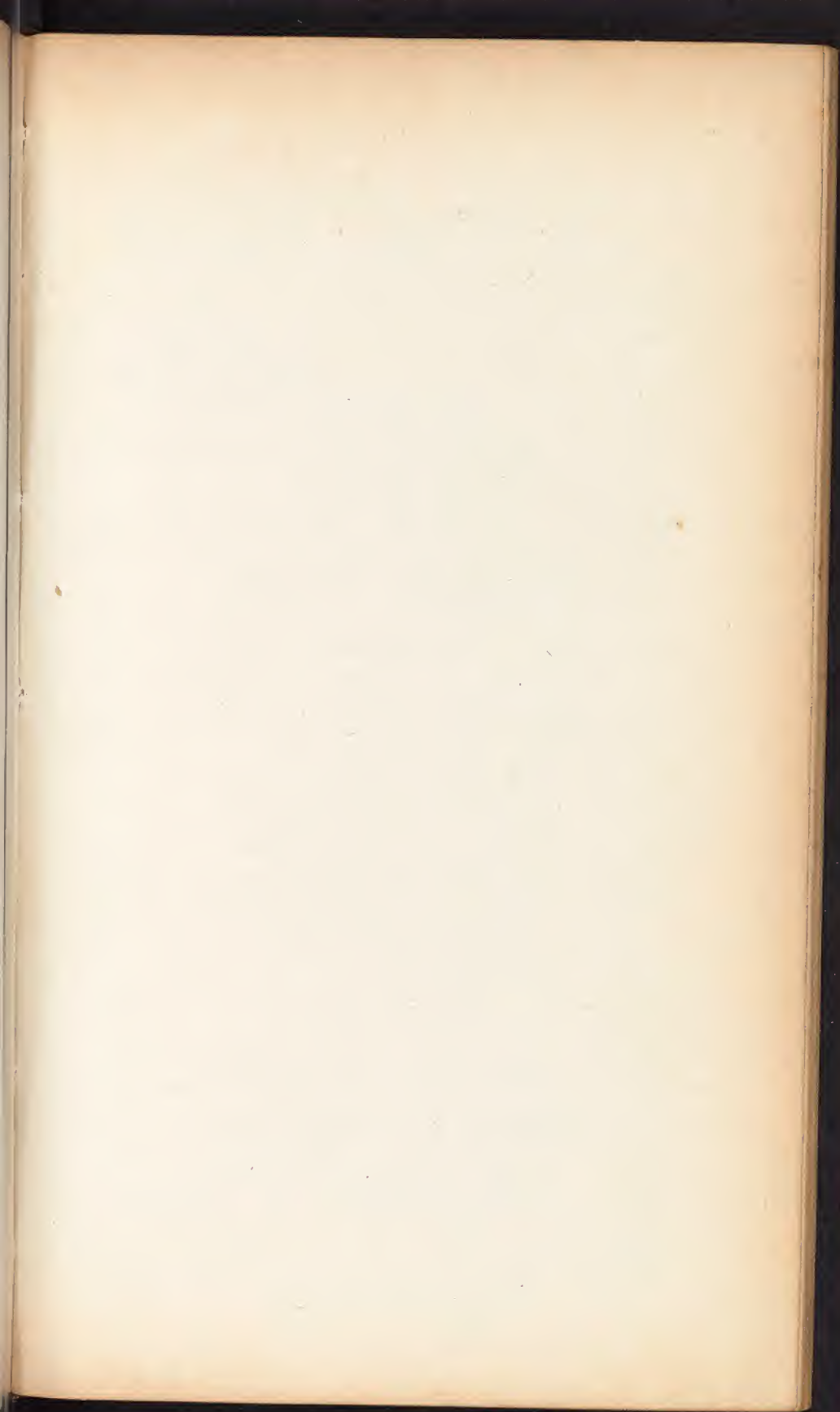
## TRAUMATIC, OR FALSE ANEURISM.

*Definition.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Dissection.*  
*Treatment.*

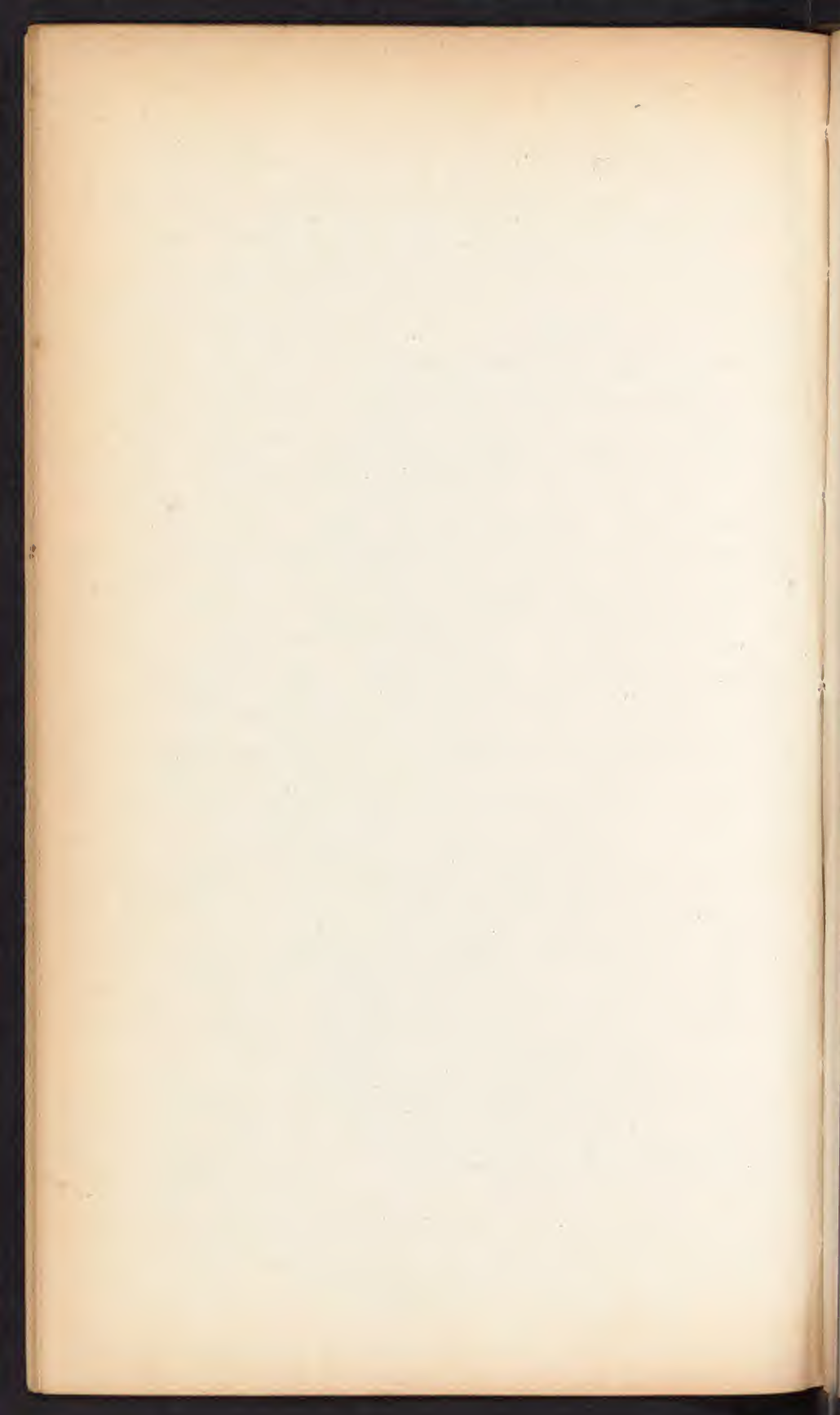


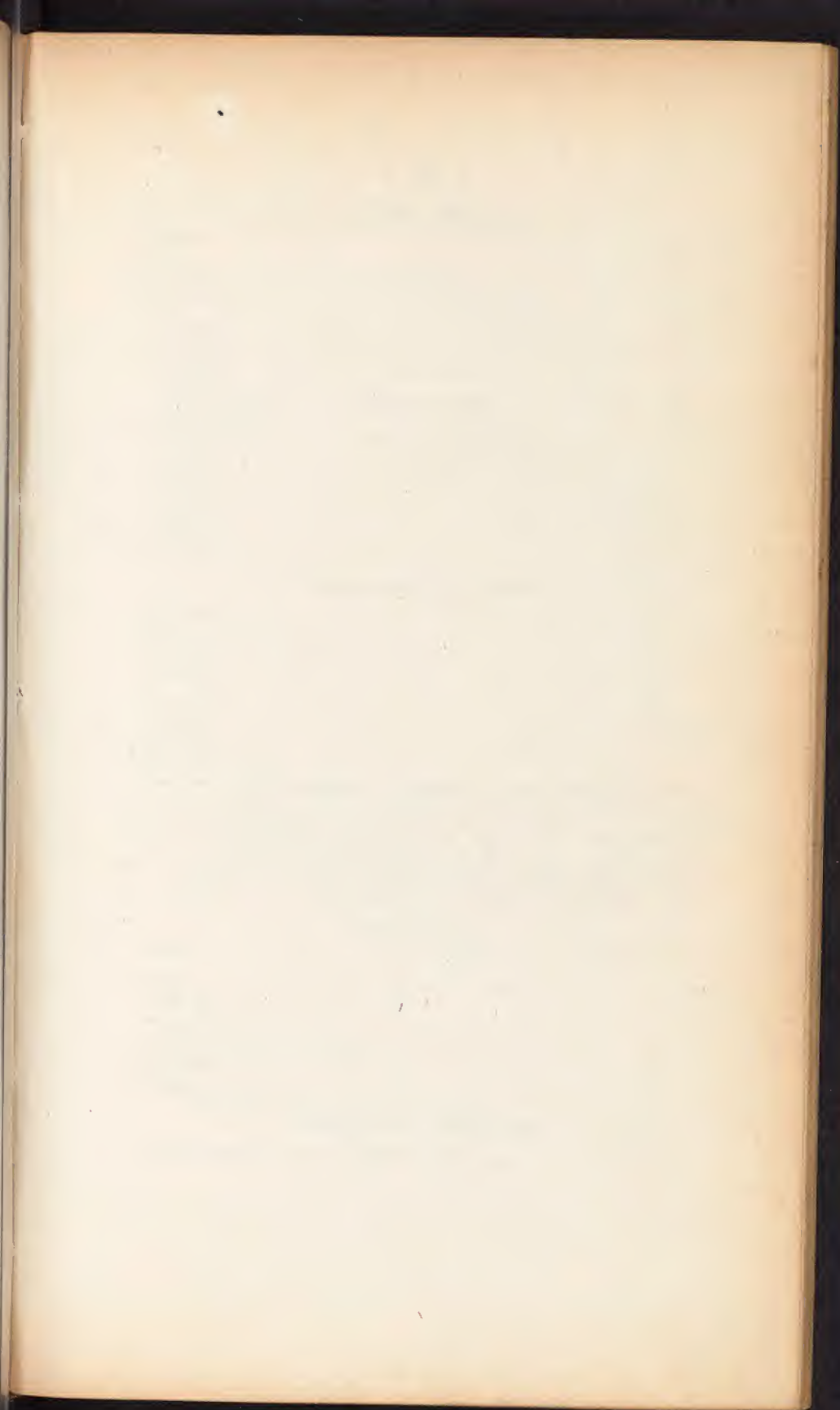


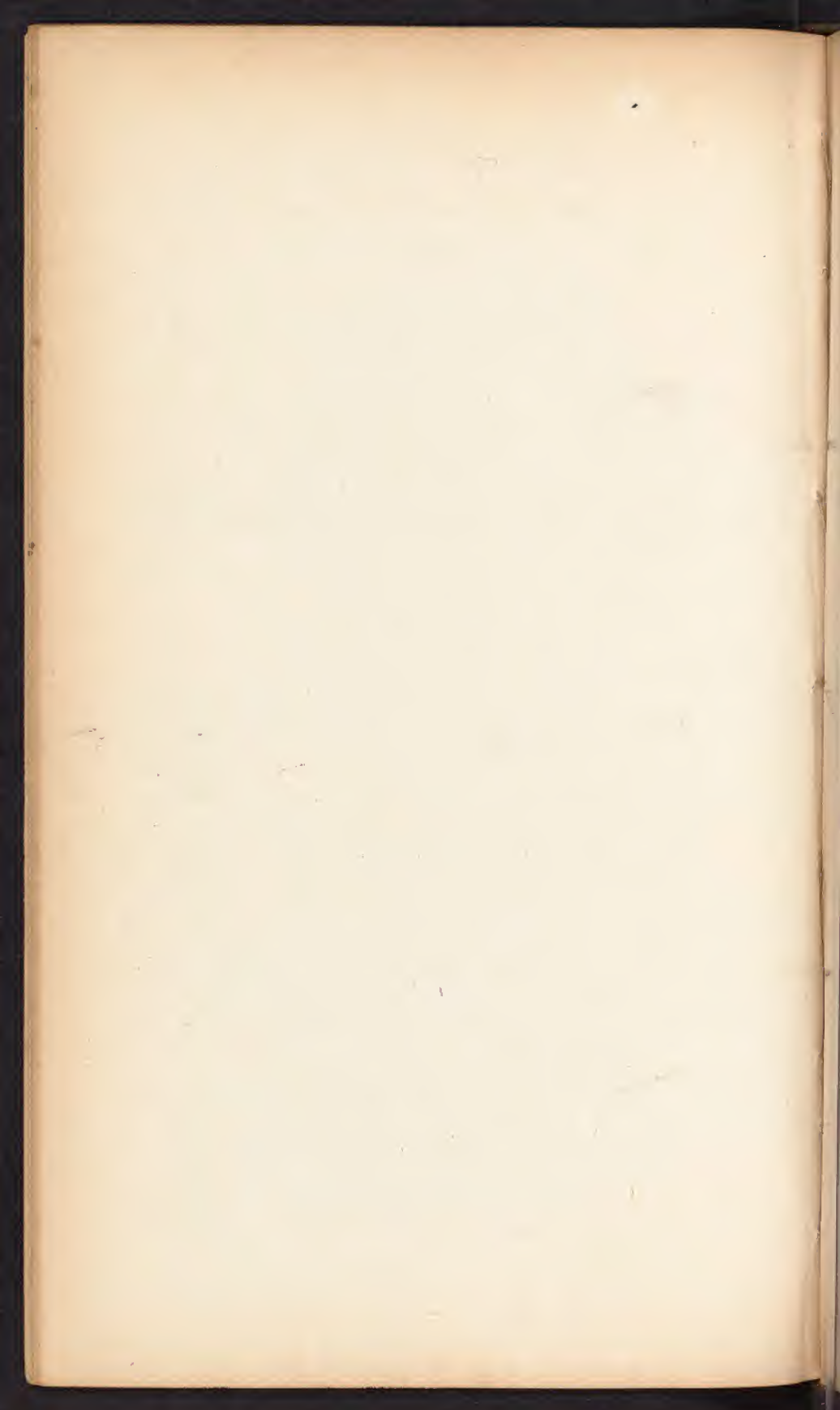














VARICOSE ANEURISM.

*Definition.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Dissection.*  
*Treatment.*

ANEURISMAL VARIX.

*Definition.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Dissection.*  
*Treatment.*

ANEURISM BY ANASTOMOSIS.

*Synonymes.*  
*Definition.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Progress.*  
*Dissection.*

*Treatment.*—1. Compression. 2. Ligature of main arterial trunks. 3. Encircling the tumour by incisions. 4. Seton. 5. Breaking up cells. 6. Puncture, followed by caustic probe. 7. Puncture, and injection with some stimulating liquid. 8. Vaccination. 9. Caustic potash. 10. Nitric acid. 11. Tart. antim. 12. Actual cautery. 13. Incisions under the skin. 14. Acupuncture. 15. Darning. 16. Ligature of the whole mass. 17. Excision. 18. Tattooing.

OSSEOUS ANEURISM.

*Definition.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Dissection.*  
*Treatment.*

V. PARTICULAR ANEURISMS.

The symptoms and treatment of each one described.

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## VIII. DISEASES OF THE VEINS.

### I. WOUNDS.

*Varieties.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Results.*  
*Mode of healing.*  
*Treatment.*

### II. RUPTURE.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

### III. INFLAMMATION, OR PHLEBITIS.

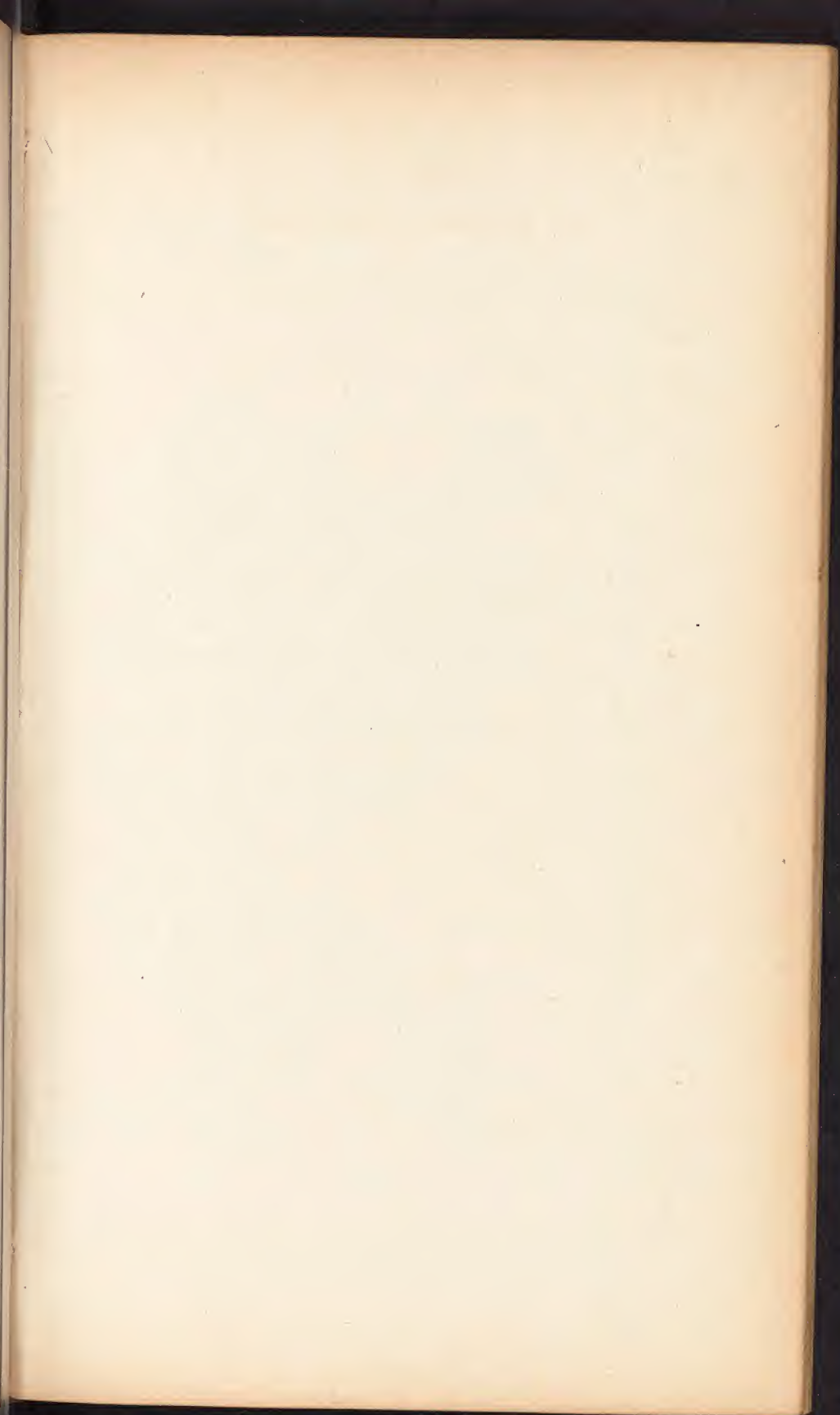
*Varieties.*—1. Acute. 2. Chronic.  
*Causes.*—1. Constitutional. 2. Local.  
*Symptoms.*—Vary with the intensity of the attack. They may be divided into the *constitutional* and *local*.  
*Diagnosis.*  
*Prognosis.*  
*Dissection.*  
*Effects resulting from phlebitis.*—Obliteration of the vein, visceral abscess, œdema, ulceration of the vessel, calcareous deposits, &c.  
*Treatment.*—1. Constitutional. 2. Local.

### IV. AIR IN VEINS.

*Effect produced by the introduction of air into the veins.*  
*The manner in which it gains admission.*  
*The causes of convulsion and death in these cases.*  
*Means of preventing its introduction while an operation is going on.*  
*Treatment in the event of its introduction.*

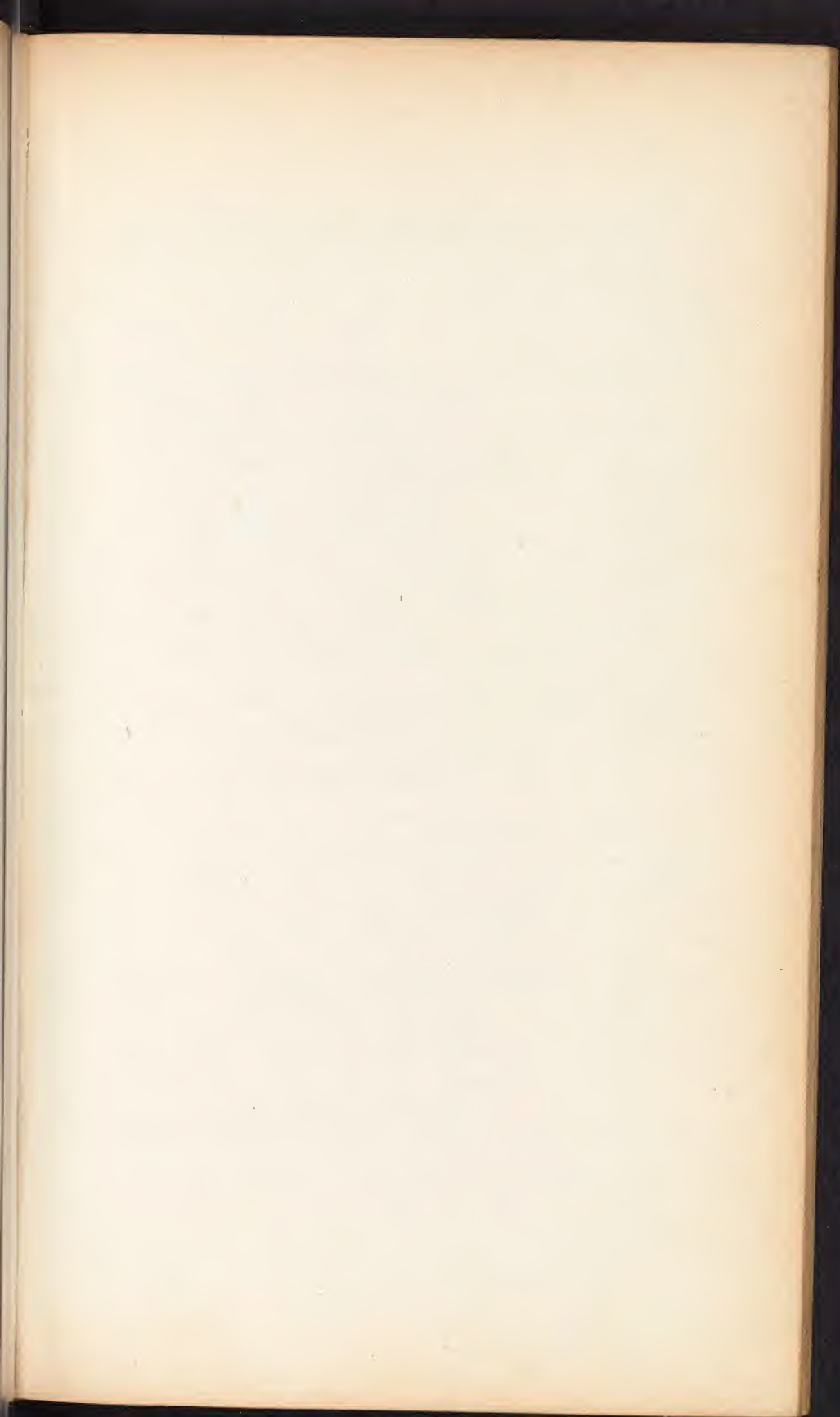
### V. VARICOSE VEIN.

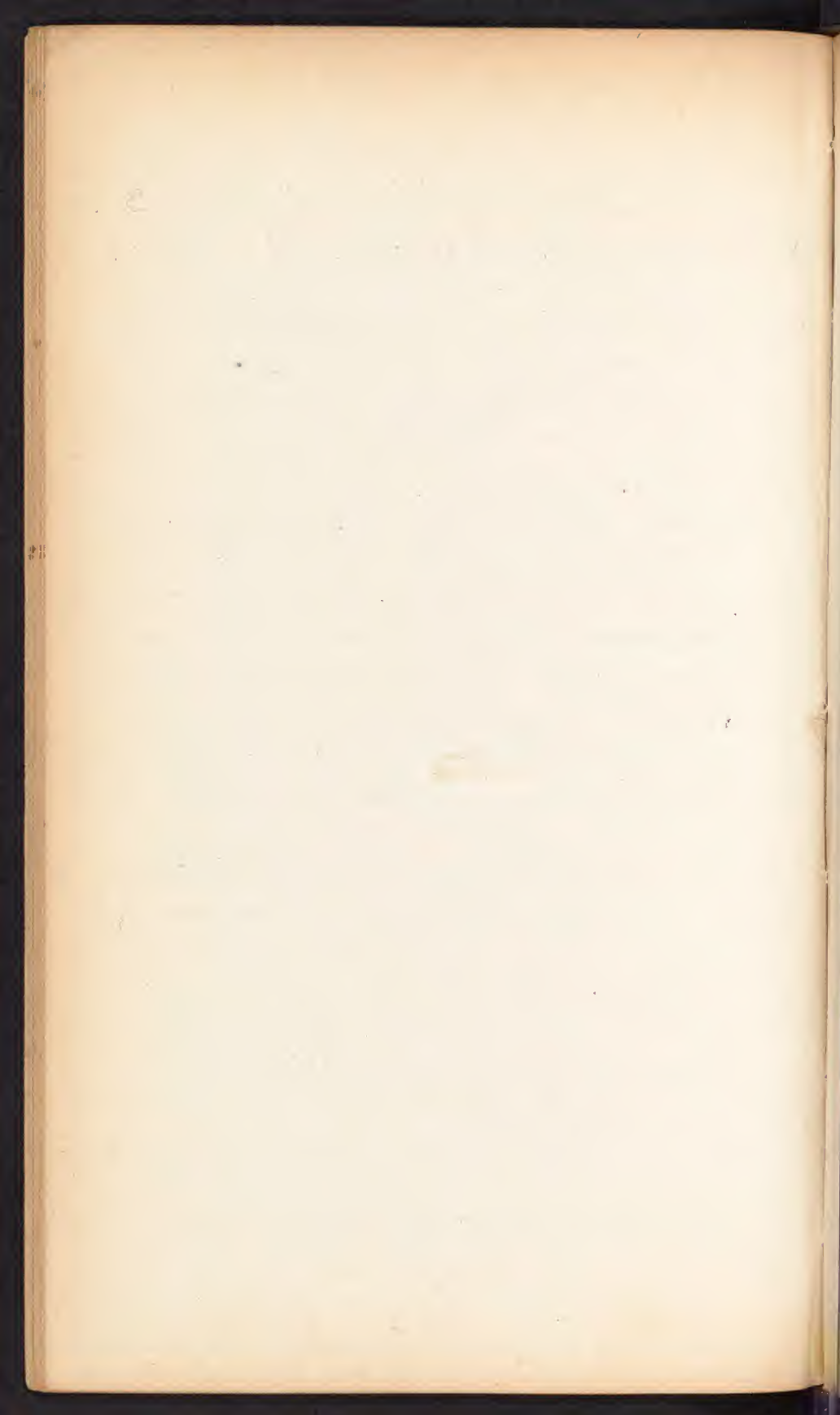
*Nature.*  
*Location.*  
*Extent.*—The dilation may be *uniform* or *unequal*, and involve a *portion* of, or the *entire vein*.  
*Causes.*—Anything that will prevent a free circulation of the blood through the vein,  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Dissection.*  
*Results.*  
*Treatment.*—1. Palliative. 2. Radical.



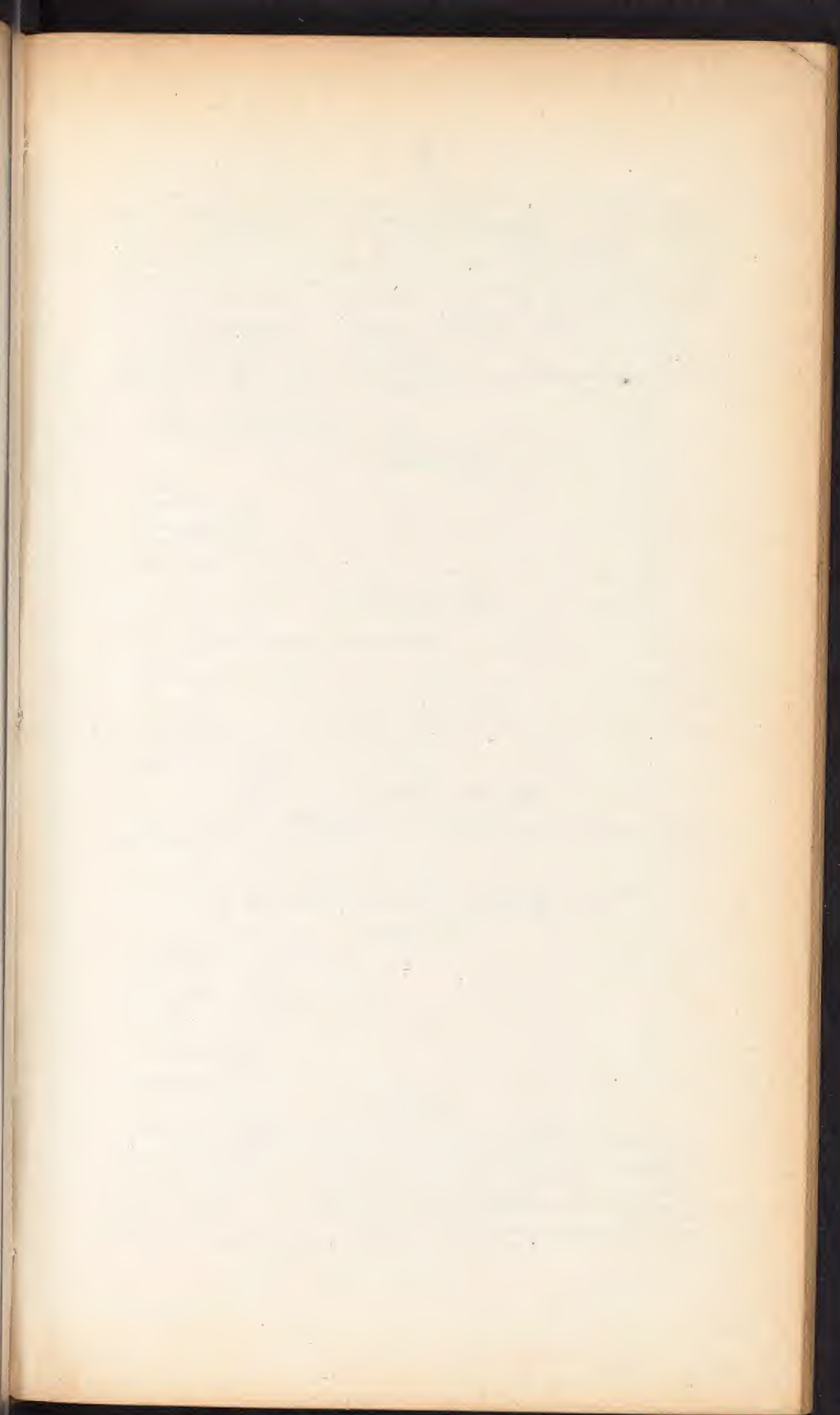














Agents employed as Palliatives.—1. Compression with rollers or straps, or both, or laced stockings. 2. Frictions with iodine ointment, or Davis's solution of iodine; repeated blisters. 3. Galvanism. 4. Puncture of the vein.

Agents employed with a view to a radical cure.—1. The ligature. 2. The needle and ligature, as used by Davat, Velpeau, and others. 3. Caustic paste which occasions a slough—(recommended by Cartwright, Mayo, &c) 4. Transverse subcutaneous incisions, followed by compression—(Brodie.) 5. Excision, followed by compression. 6. Acupuncture. 7. Seton. 8 Subcutaneous ligature—(Ricord.) 9. Irregular compression with graduated compresses and a bandage. 10. Position, rest for several months.

*Dangers of these measures.*

*Appreciation of the different methods.*

## VI. OSSIFICATION.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

## VII. PHLEBOLITES.

*Definition.*

*Veins in which they are usually found.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Chemical composition.*

*Treatment.*

## VIII. MALIGNANT DISEASES.

The veins are frequently involved in the different malignant diseases which attack all organized tissues.

## IX. DISEASES OF THE LYMPHATICS.

### I. WOUNDS.

*Varieties.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Results.*

*Mode of healing.*

*Treatment.*

### II. RUPTURE.

This lesion is stated to have occurred in a patient of Guifford's, but the symptoms are too obscure to merit our attention. It was supposed by Morton to be one cause of consumption; by Ackermann, to exist in scrofula; by Hendy to exist in Barbadoes leg; by White it was considered the cause of phlegmasia dolens; by Assalani and others it was reckoned the cause of dropsy; and Brombilla thought it the cause of white swelling.



### III. VARICOSE DILATATION, OR CIRCUS.

A rare and obscure lesion, present usually in dropsy and some other complaints. As it is an *effect*, it can only be relieved by removing the cause on which it depends.

### IV. OSSIFICATION.

Like the arteries and veins, these vessels are liable to calcareous deposits in their coats.

### V. ANGEIOLEUCITIS, OR INFLAMMATION.

*Varieties.*—1. Acute. 2. Chronic.

*Causes.*—1. Direct. 2. Indirect.

*Age most liable.*—Puberty and old age.

*Symptoms.*—1. Local. 2. General.

*Diagnosis.*—May be confounded with *phlebitis*, *neuritis*, *neuralgia*, *erysipelas*, and *phlegmon*.

*Prognosis.*—It is to be considered generally a dangerous disease.

*Progress and duration.*—Variable.

*Terminations.*—Resolution, suppuration, induration, ulceration, sloughing, death.

*Dissection.*—Three classes of phenomena to study.

1. Those which take place in the vessels.

2. Those which take place in the interposed tissues.

3. Those which take place in the viscera, remote regions, and blood—(Velpeau.)

*Treatment.*—1. Constitutional. 2. Local.

### VI. INFLAMMATION OF LYMPHATIC GLANDS.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Terminations.*

*Treatment.*

### VII. ENLARGEMENT AND INDURATION.

*Causes.*

*Symptoms.*

*Diagnosis.*

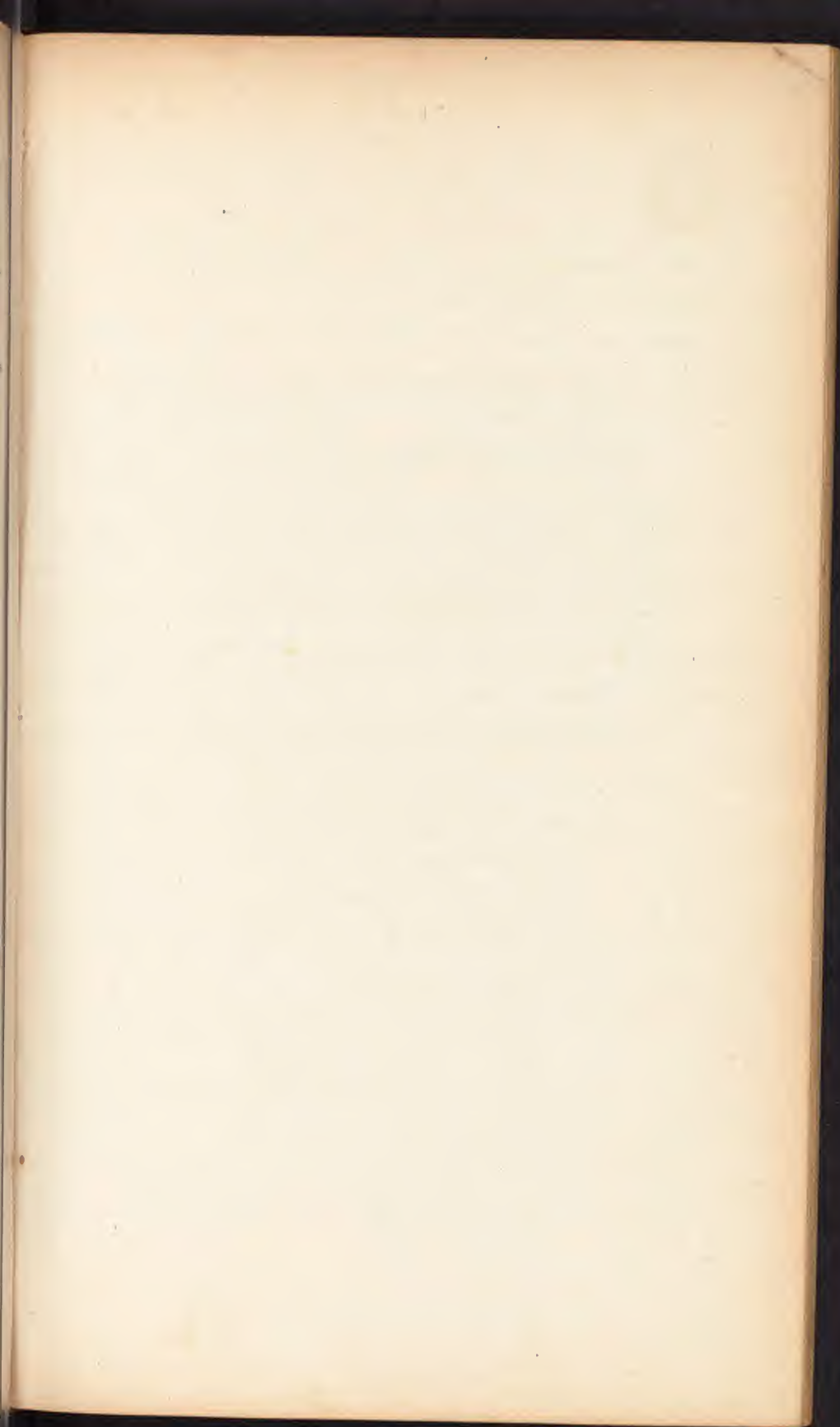
*Prognosis.*

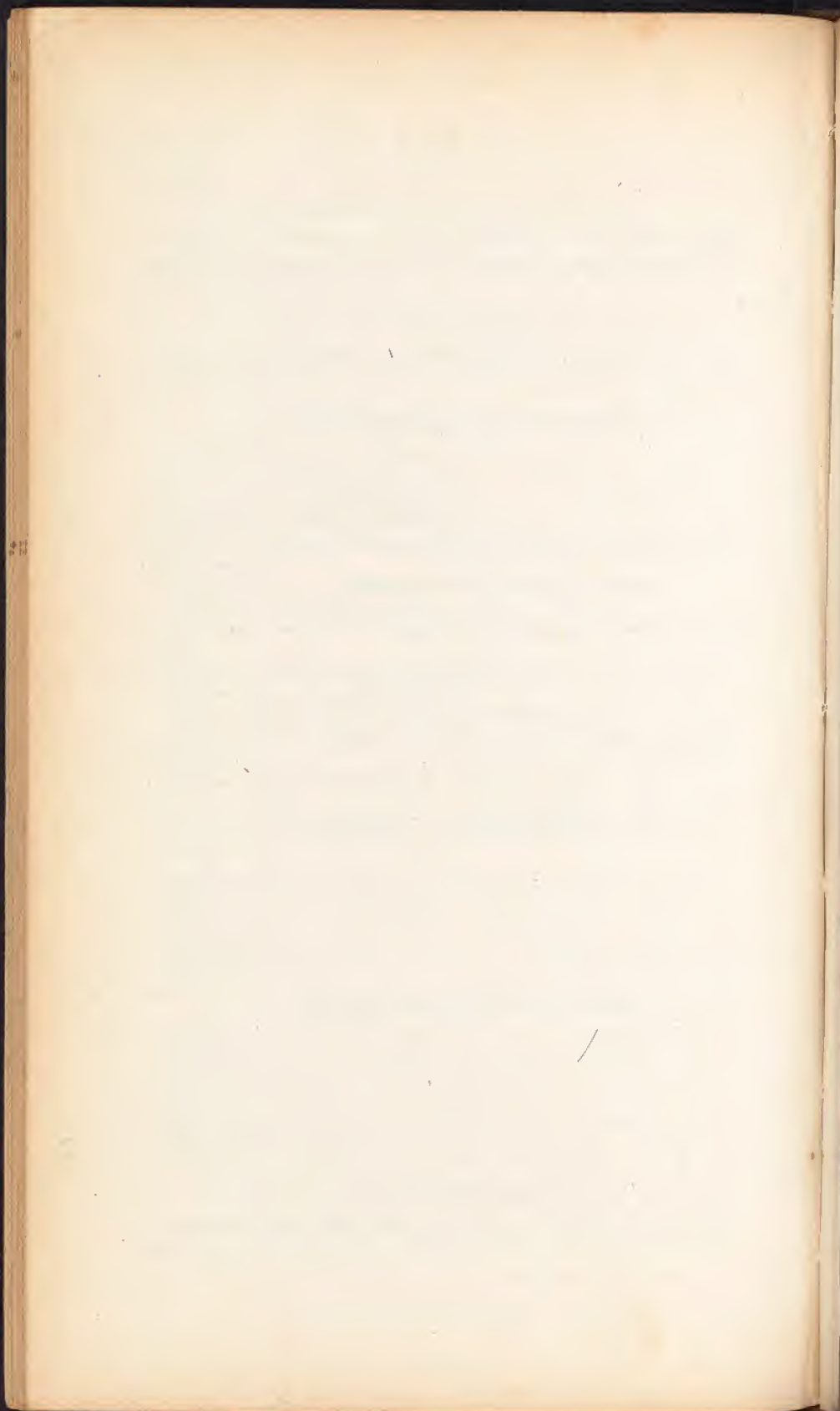
*Terminations.*

*Treatment.*

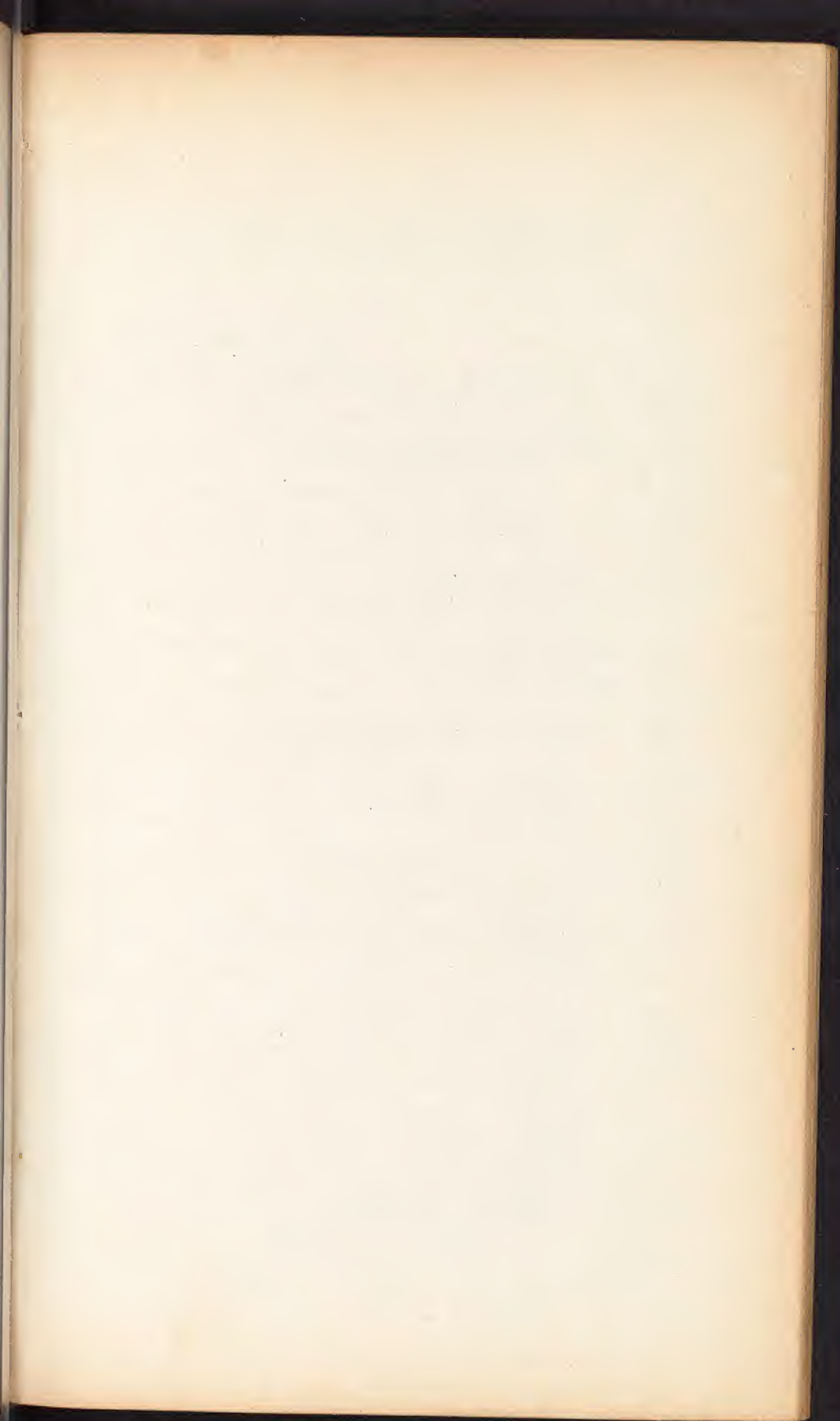
### VIII. OSSIFICATION.

Usually the result of inflammation, and the glands most liable are those of the lungs.

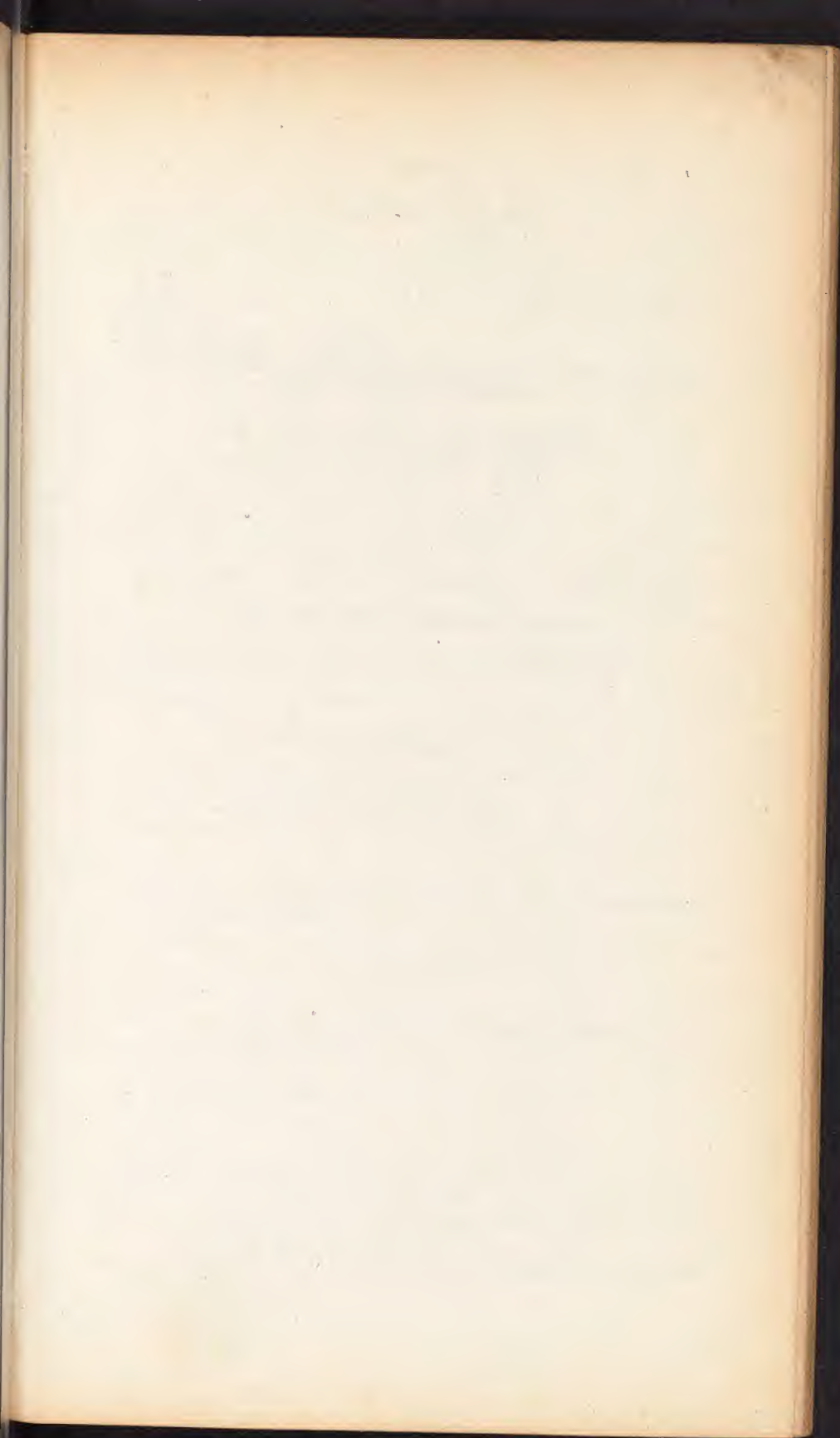




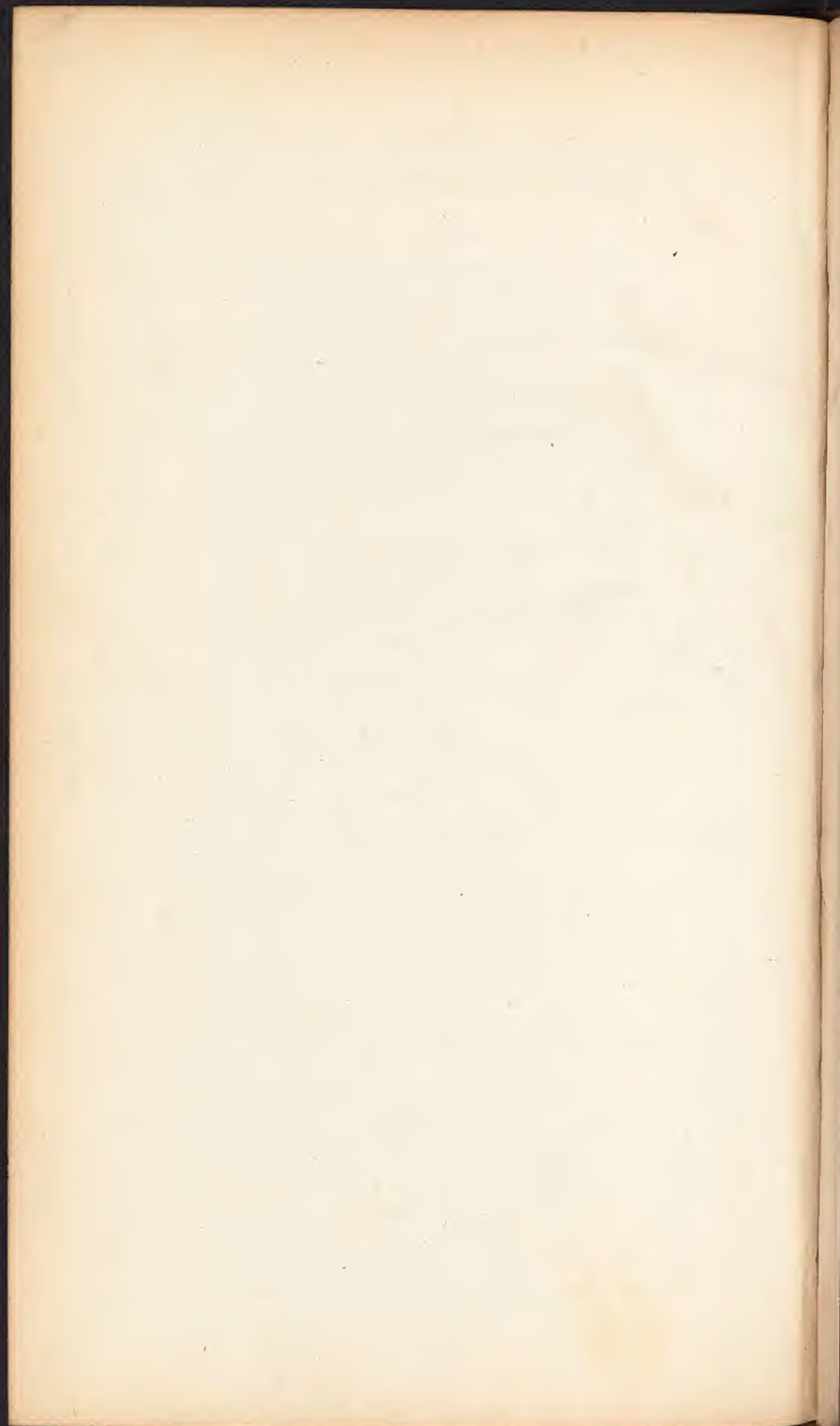












IX. MALIGNANT DISEASES.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Terminations.*  
*Treatment.*

X. CONSEQUENCES RESULTING FROM THE EXTIRPATION OF A  
LARGE NUMBER OF GLANDS.

X. DISEASES OF THE NERVES.

I. WOUNDS.

*Varieties.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Mode of healing.*  
*Treatment.*

II. STRETCHING AND RUPTURE.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

III. NEURITIS.

*Varieties.*—1. Acute. 2. Chronic.  
*Causes.*—1. Constitutional. 2. Local.  
*Symptoms.*—Depend upon the nature of the attack.  
*Diagnosis.*  
*Prognosis.*  
*Dissection.*  
*Terminations.*—Resolution, effusion of lymph, ulceration, hypertrophy, atrophy, hardening, softening.  
*Treatment.*

IV. NEURALGIA.

*Definition.*  
*Varieties.*  
*Causes.*—1. Those which act upon the nerve itself. 2. Those which operate through the system at large.  
*Symptoms.*  
*Parts most liable to be attacked.*  
*Diagnosis.*  
*Prognosis.*  
*Pathology.*  
*Treatment.*—Indications—1. Remove the cause, whether constitutional or local. 2. Palliate the pain. 3. Divide the nerve. 4. Excise a portion of the nerve. 5. Acupuncture. 6. Electro-magnetism, &c. 7. Moxa, &c.

V. ANOMALOUS NERVOUS AFFECTIONS

These vary in character; and of course the treatment must be based upon the peculiarity of each.

## VI. HYSTERICAL NEURALGIA.

*Definition.**Persons most liable.**Parts most liable to be attacked.**Causes.**Symptoms.**Diagnosis.**Prognosis.**Pathology.**Treatment.*

## VII. TUMOURS.

*Varieties.*—Solid, or encysted.

*Location.*—In the neurilema; between the superficial fibres of a nerve, or they may implicate all the fasciculi at the part attacked; and again, they may be developed upon the extremity of a divided nerve in the shape of a little button. Lastly, they may occupy the large and deeply seated nerves, or the superficial and cutaneous; when developed in the latter situation, the tumour is called "*painful subcutaneous tubercle.*"

*Causes.*—Blows upon the part, the application of a ligature, &c.

*Symptoms.*—Depend upon the location of the tumour. They belong, however, to the class of "nervous symptoms," general as well as local.

*Diagnosis.**Prognosis.**Pathology.**Treatment.*—1. Palliative. 2. Radical.*Palliative means—**a.* Leeches.*b.* Counter irritation.*c.* Fomentations.*d.* Anodynes.*Radical means—**a.* Division of the nerve above the tumour.*b.* Extirpation of the tumour.*c.* When the tumour is a *cyst*, puncture followed by compression.*Condition of the limb after the removal of a portion of the nerve.*

## VIII. TETANUS.

*Definition.*

*Varieties as to muscles affected.*—1. Opisthotonos. 2. Emprosthotonos. 3. Pleurosthotonos. 4. Trismus, or locked jaw.

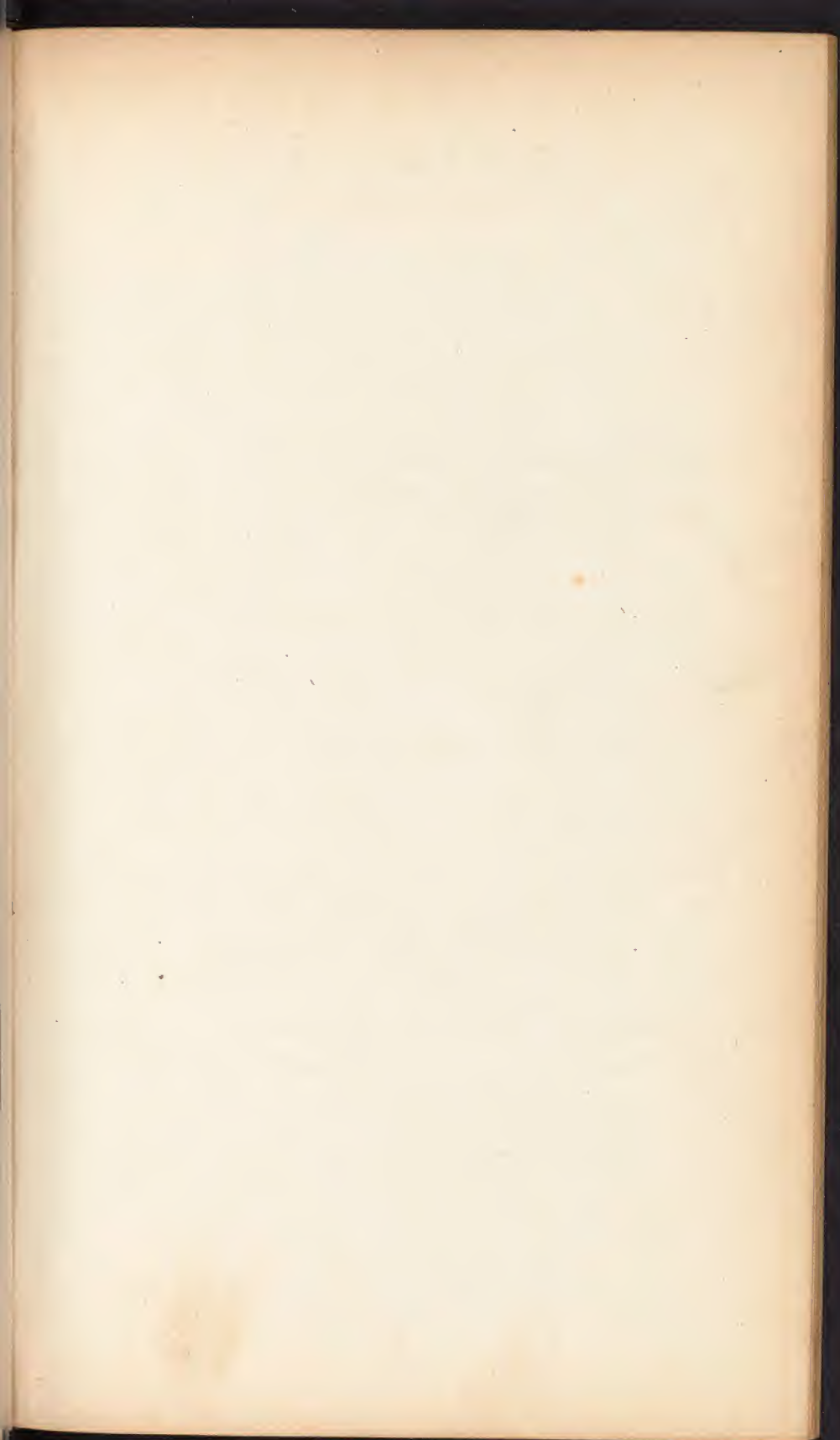
*Varieties as to cause and duration.*—1. Traumatic. 2. Idiopathic. 3. Acute. 4. Chronic.

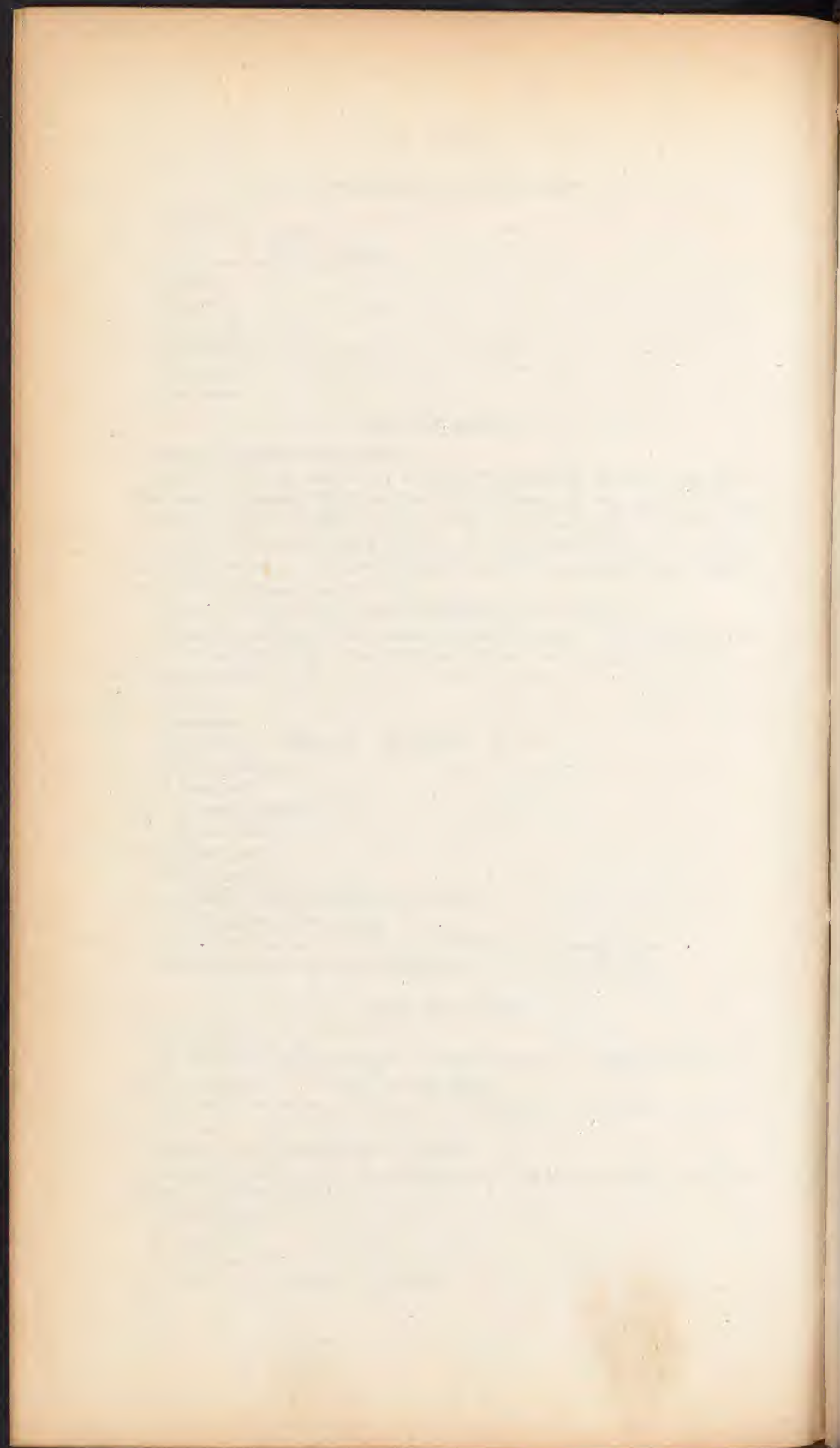
*Causes.*—1. Constitutional. 2. Local.

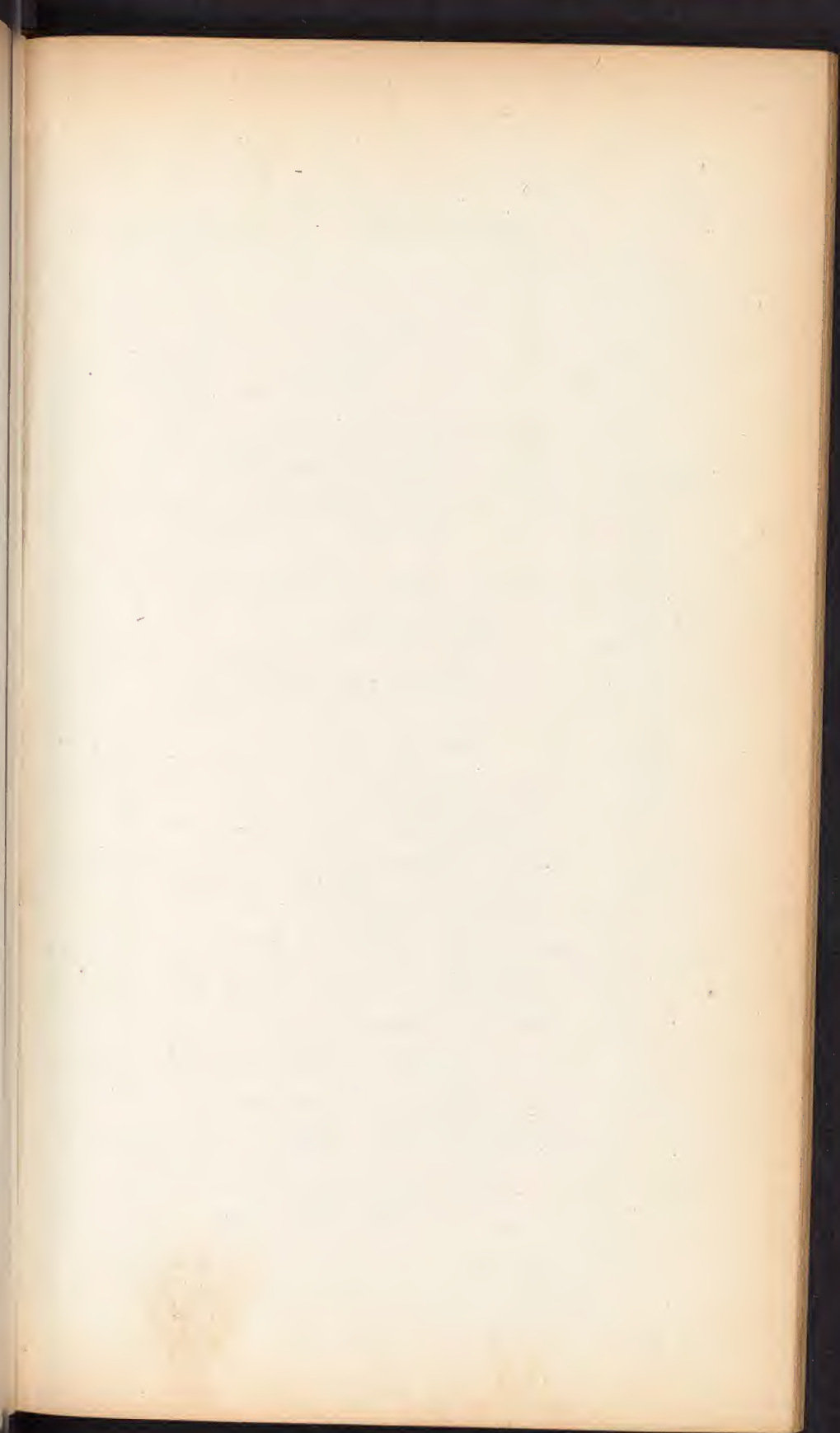
*Symptoms.*—Vary with the location as well as the intensity of the attack. General symptoms stated.

*Diagnosis.**Prognosis.**Pathology.**Treatment.*—1. General. 2. Local.

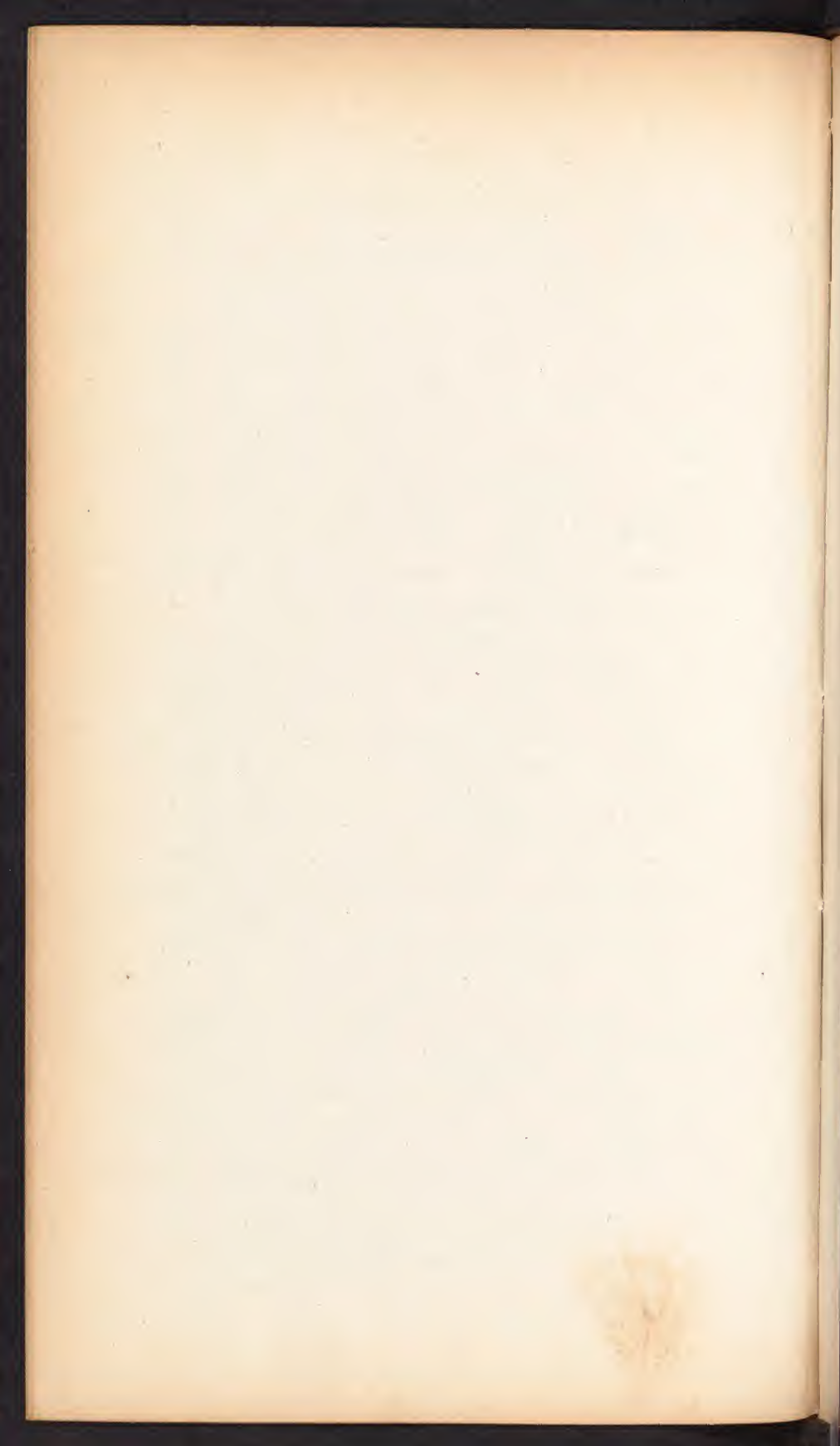


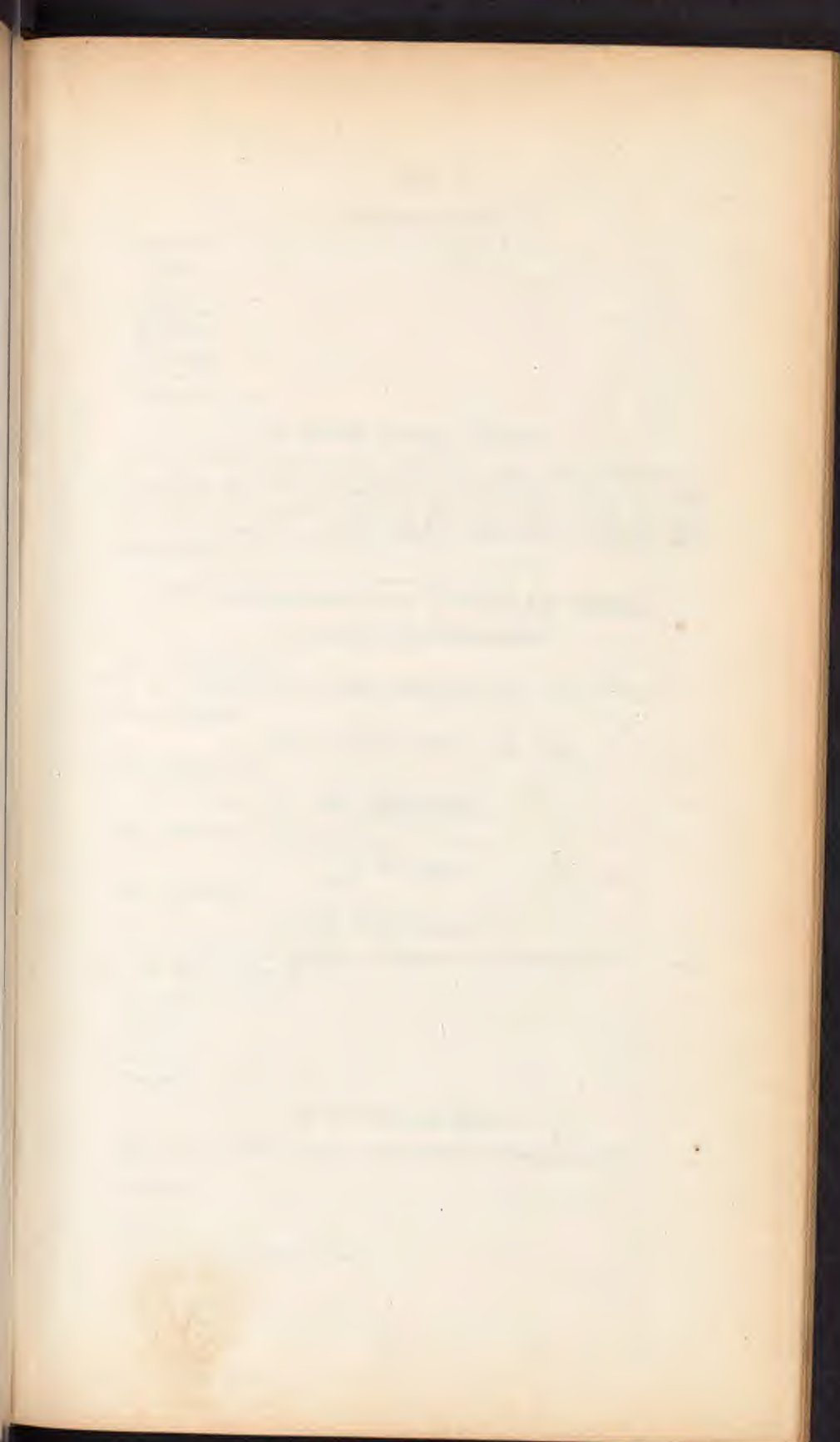


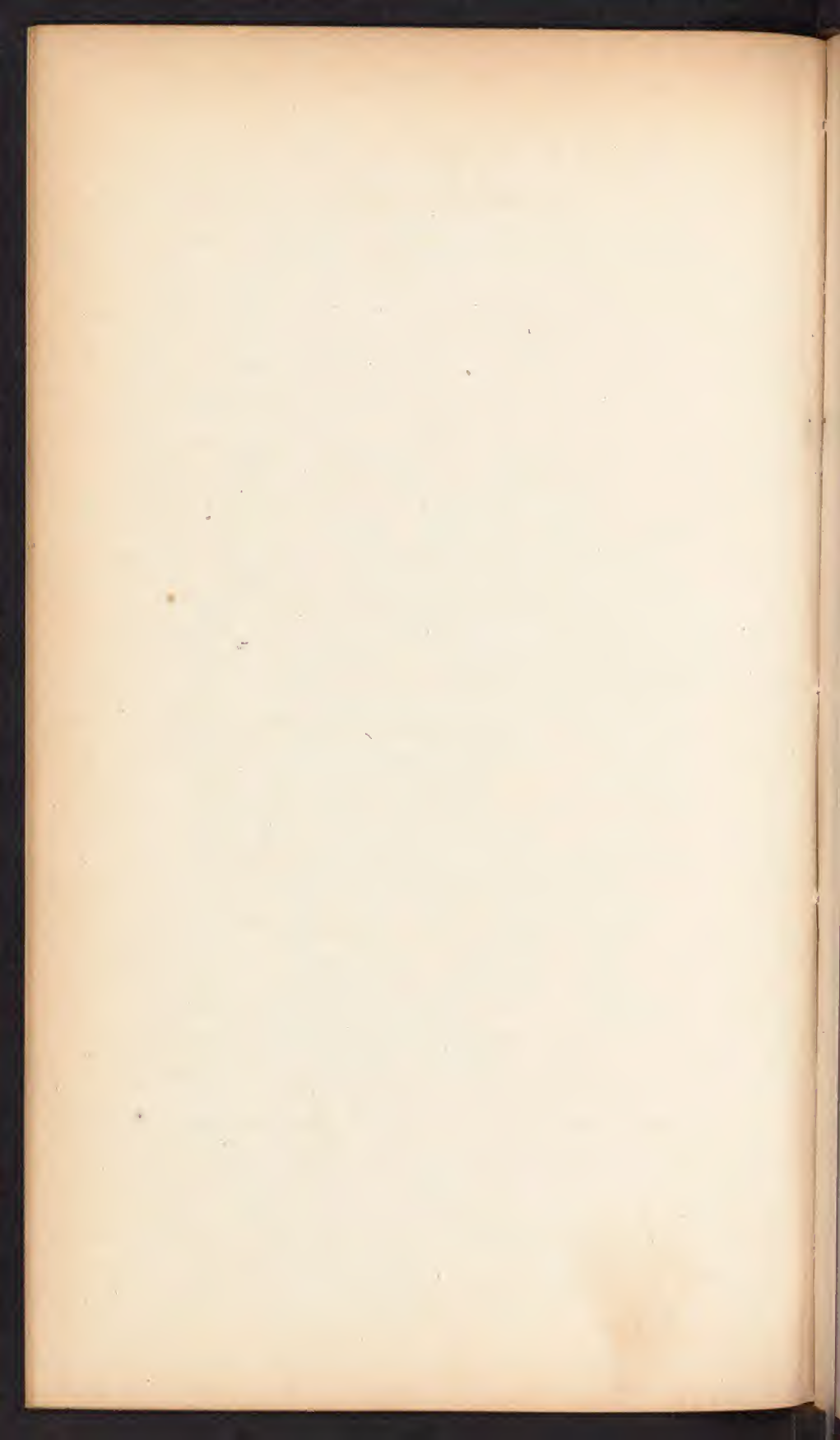














IX. PARALYSIS.

*Definition.*

*Varieties.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Pathology.*

*Treatment.*

X. OTHER ORGANIC LESIONS.

The nerves, like the other tissues, are liable to hypertrophy, atrophy, hardening, softening, ulceration, and malignant diseases of various kinds. But these lesions are rarely recognized until after death, or they give rise to the phenomena already referred to as characteristic of diseases to which specific names have been assigned.

XI. DISEASES OF THE CELLULAR TISSUE.

I. SIMPLE INFLAMMATION.

See "Inflammation."

II. PHLEGMON, OR CIRCUMSCRIBED INFLAMMATION.

See "Phlegmon."

III. ERYSIPELATOUS INFLAMMATION.

See "Erysipelas."

IV. CARBUNCLE.

See "Charbon or Carbuncle."

V. ABSCESS.

See "Abscess."

VI. HEMORRHAGE.

*Causes.*—Mechanical injuries, and diseases of a peculiar character, as purpura, scorbutus, typhus, &c.

*Character of the blood.*

*Symptoms.*

*Prognosis.*

*Diagnosis.*

*Treatment.*

VII. SEROUS EFFUSION.

*Synonym.*—Edema, anasarca, aqua intercus, leucophlegmasia, &c.

*Causes.*

*Symptoms.*

*Prognosis.*

*Diagnosis.*

*Different kinds of serum effused.*

*Treatment.*

VIII. INDURATION.

*Synonym.*—Scleroma, skin-bind.

*Persons most liable.*—Children.

*Causes.*

*Symptoms.*

*Duration.*

*Prognosis.*

*Diagnosis.*

*Character of the tissue.*

*Treatment.*

IX. EMPHYSEMA.

*Synonym.*—Pneumatosis spontanea et traumatica.

*Causes.*—Mechanical injuries, and sometimes it occurs spontaneously.

*Parts of the body most liable to this collection.*

*Symptoms.*

*Prognosis.*

*Diagnosis.*

*Treatment.*

X. TUMOURS OF DIFFERENT KINDS.

See "Tumours."

XI. CONDENSATION INTO CYSTS.

*Causes.*

*Indications that they have formed.*

*Uses of these cysts.*

---

XII. DISEASES OF THE ADIPOSE TISSUE.

I. INFLAMMATION.

See "Inflammation."

II. WOUNDS.

See "Wounds."

III. HEMORRHAGE.

*Causes.*

*Character of the blood.*

*Symptoms.*

*Prognosis.*

*Diagnosis.*

*Treatment.*

IV. HYPERTROPHY, OR POLYSARCIA.

*Varieties.*—1. Partial. 2. Complete.

*Causes.*

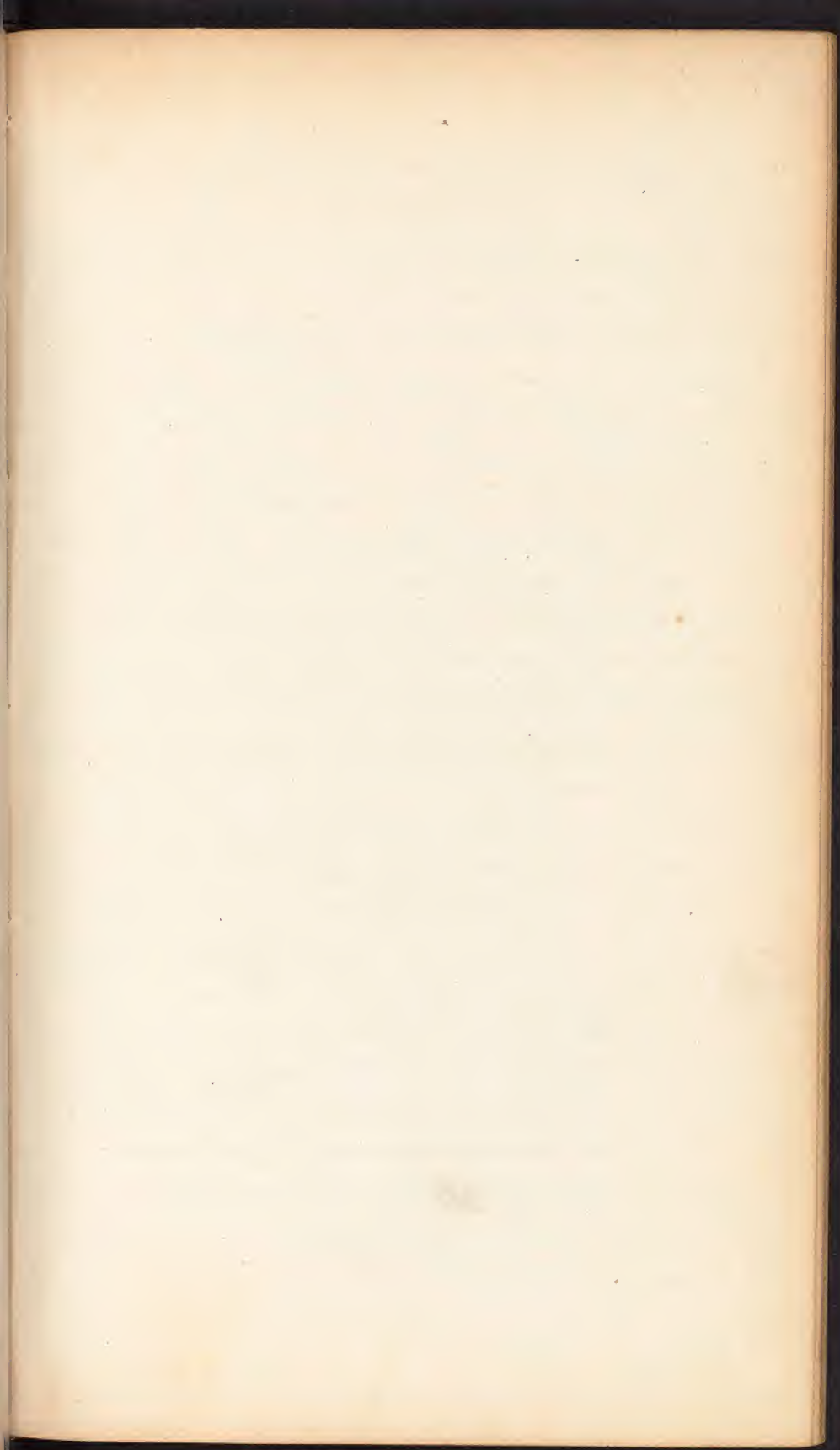
*Symptoms.*

*Prognosis.*

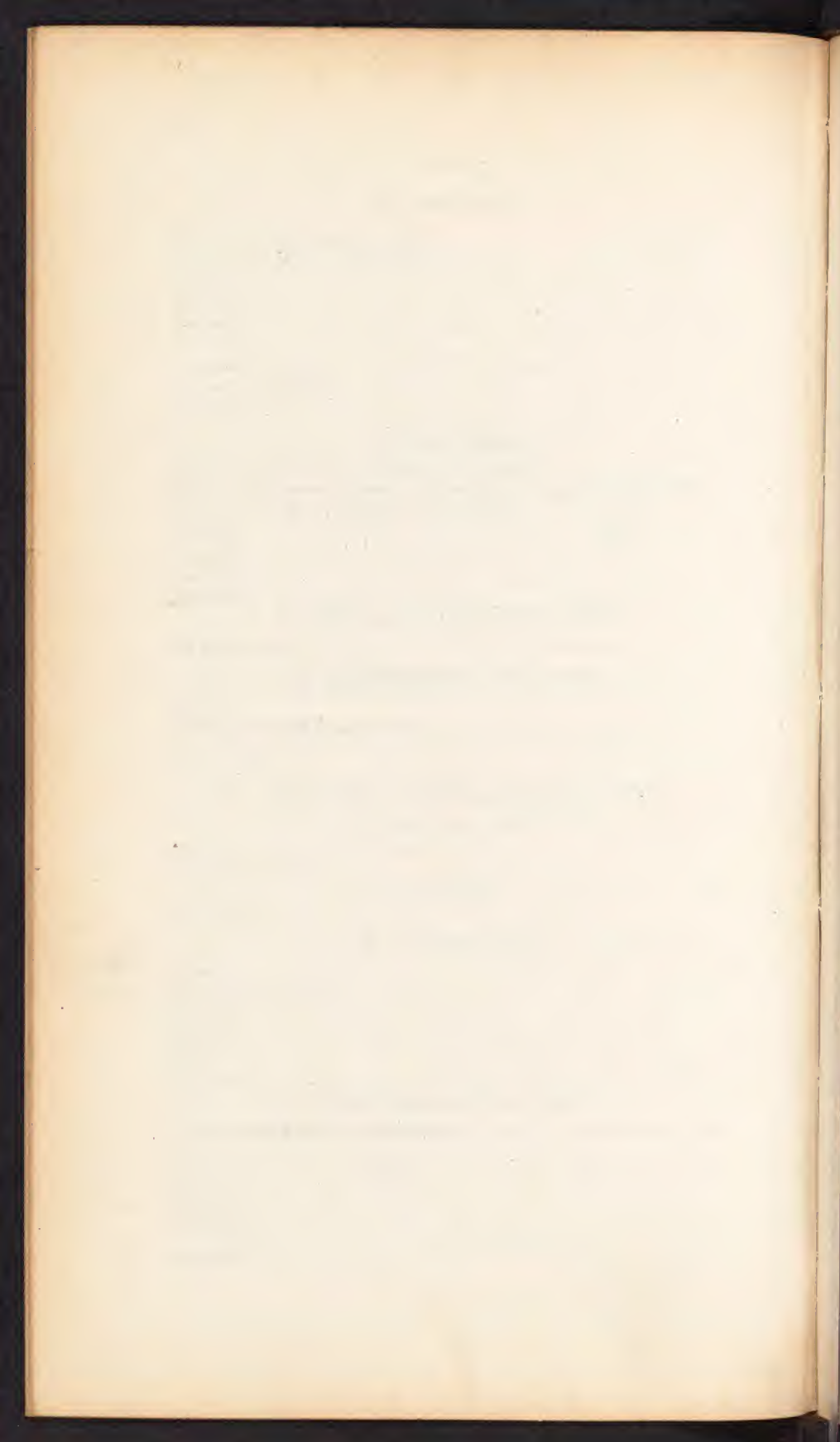
*Diagnosis.*

*Dissection.*

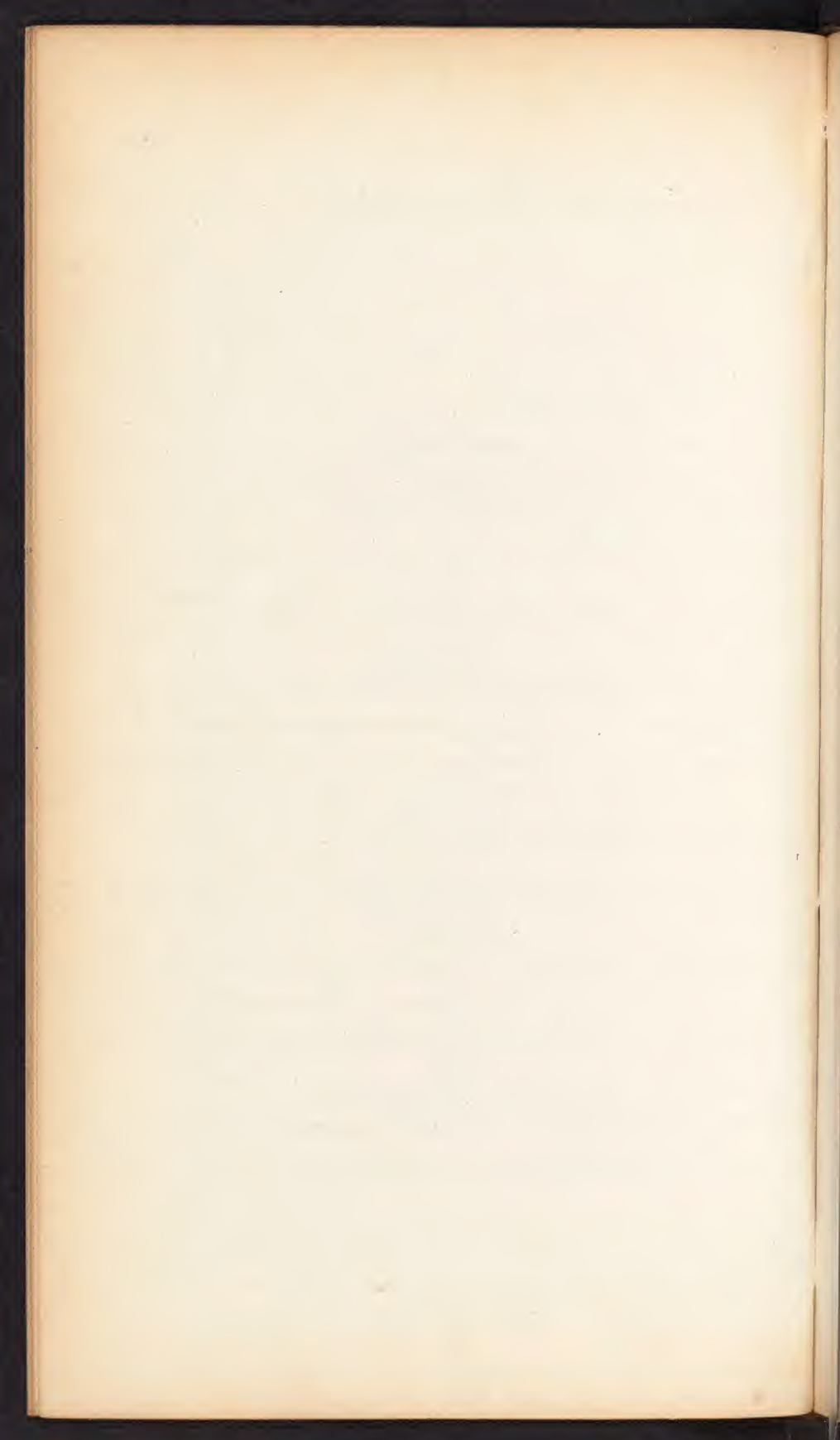
*Treatment.*



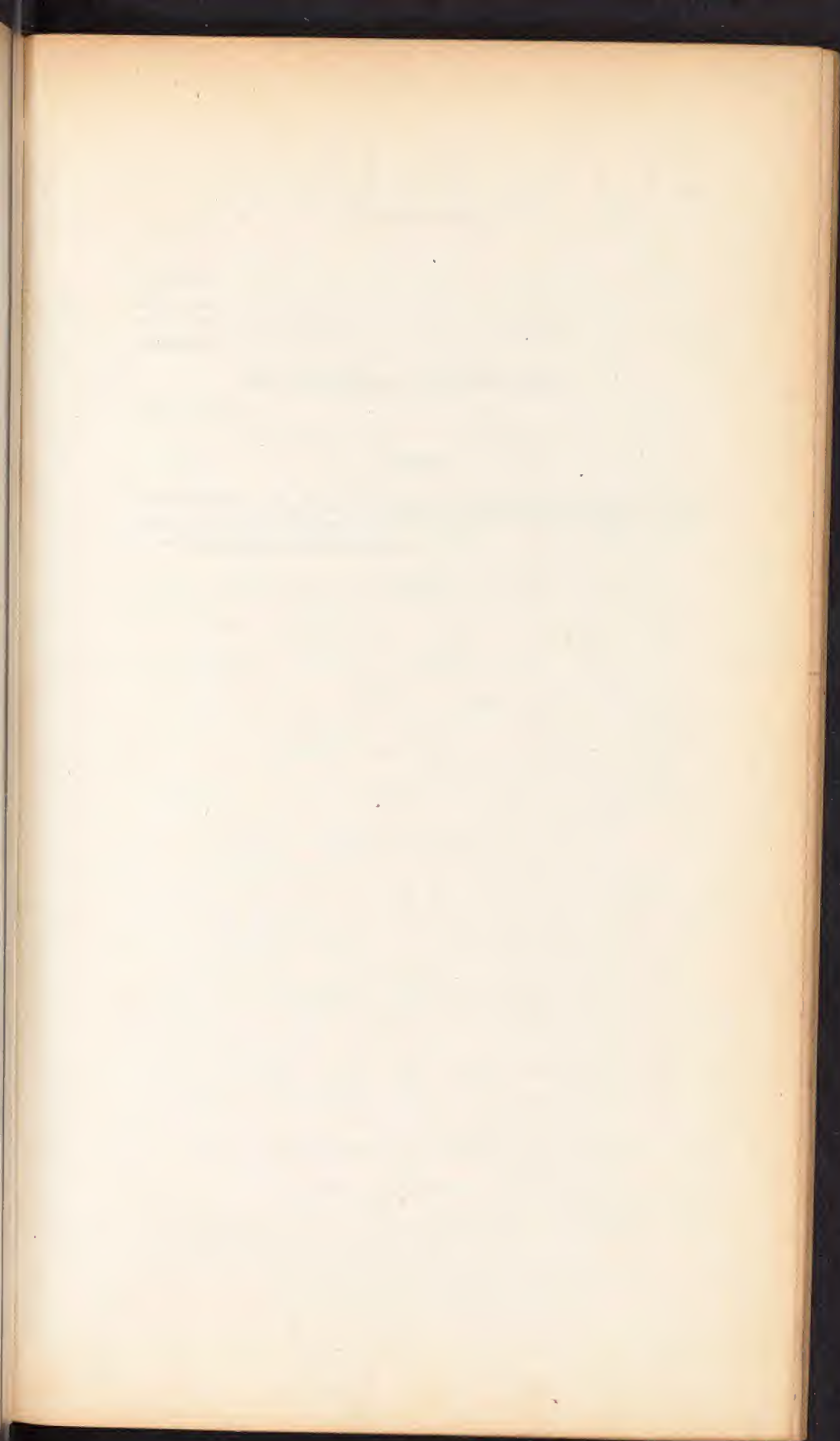


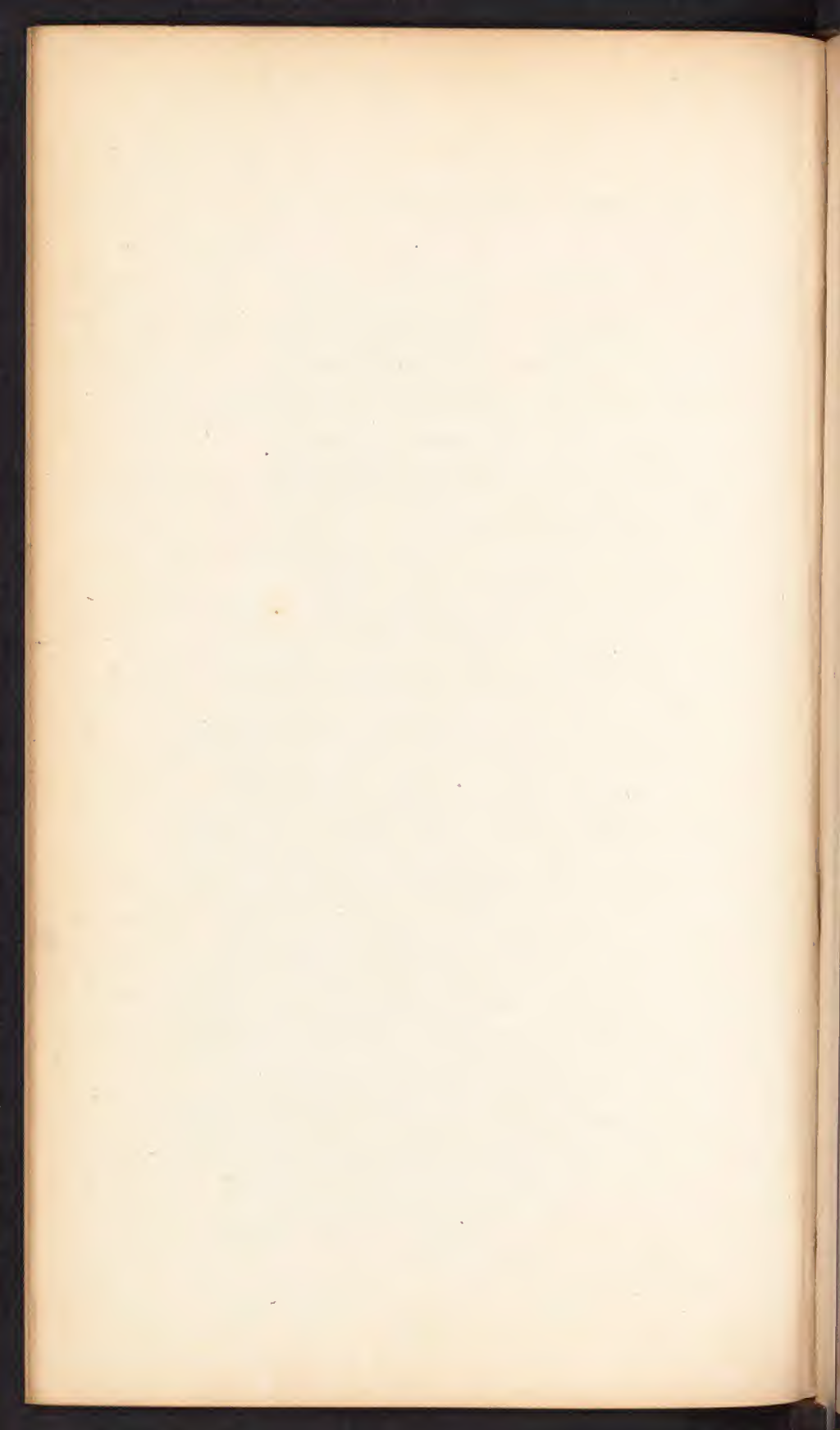












V. ATROPHY.

*Varieties.*

*Causes.*

*Symptoms.*

*Prognosis.*

*Diagnosis.*

*Treatment.*

VI. TUMOURS OF VARIOUS KINDS.

See "Tumours."

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Diseases of the *Skin, Hair, Nails, and Teeth* cannot be embraced in a course so rigidly restricted to the *most important* points in Surgery ; they will, however, be found in my work on Surgery.

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## THIRD DIVISION, OR DISEASES OF REGIONS AND ORGANS.

### I. INJURIES OF THE HEAD.

#### I. WOUNDS.

*Importance of these injuries.*

*Classification.*

a. Wounds involving the scalp alone.

b. Wounds involving the scalp and bones.

c. Wounds involving the brain and its membranes, as well as the scalp and bones.

#### a. SUPERFICIAL WOUNDS.

##### I. INCISED WOUNDS.

*Causes.*

*Symptoms.*

*Prognosis.*

*Results.*

*Treatment.*

##### H. LACERATED WOUNDS.

*Varieties.*

*Causes.*

*Symptoms.*

*Prognosis.*

*Results.*

*Treatment.*

##### III. CONTUSED WOUNDS.

*Causes.*

*Symptoms.*

*Prognosis.*

*Results.*

*Treatment.*

#### IV. PRODUCTS OF CONTUSED WOUNDS.

##### a. BLOODY TUMOUR.

b. SUPPURATION BETWEEN SCALP OR PERICRANIUM AND BONE.

c. SEPARATION OF DURA MATER.

Wounds in Scalp. great danger  
in small wounds - if going on  
to Erysipellatous inflom. - don't  
use stitich if can avoid, always  
shave head if by - comes under  
wash with Argenti Nitrad. - and  
if Neuralgic cut off the nerves -  
~~wash~~ head with Hyg. Veretumum  
and Lacerated Wounds -

Treat. wash shape - bring all  
the shreds and unite with Stitches  
and adhesive - Straps purge least  
symp. bleed - put on Antimonials  
and keep down the heat -

#### Contused wounds

Gradually ecchy mous, are among  
most serious wounds of head  
by gradual swelling hard tumour  
on edges and soft in middle  
some, though not intense pain -  
Treat, avoid if possible opening  
Scalp shave the head keep down  
fever. may be converted in abscess  
If after Antiphlogistic treat don't  
bring on constitutional Symp -  
let it alone, if converted into  
pus open immediately - Never  
open only when forms a solid  
tumor lay open and take out

Sometimes Confounded with  
fracture, very serious danger if  
Inflam dev on head between  
the Pari Cran and Scalp -

Comes on by tenderness swelling  
Nausea - fluctuation - pain  
increase - let out pus immediately  
if disturbance nervous - don't wait  
warm fomentations applied -

Another very serious Comp -  
a blow causing - morose  
memory affected appetite  
leaves him - And having  
a sort of inconvenience from  
low grade and pulse the  
inflammation is going on  
and pus is forming don't  
wait - Try first Simple Meas  
puge give morseals but  
back to work - If inf - goes on  
and con out more from pt on  
head him - hemorrhage The amount  
of blood in brain - feel scalp  
shave it if feel tender or putty  
spot cut to bone - Take a  
trephine and cut through  
the bone - and let out pus - If  
no indication when to trephine  
if they come to a whole skin  
has given. Open the head  
one side or other and



We relieve the patient don't use  
more than one hole, and resort  
to mercurials, (Punctured wounds)

Shave head close an aliter phlog  
wound temporal artery -

Recognize by pulsation - may cease  
to pulsate, let alone and pulsation may  
come back Allend completely compress  
improves - low down if don't - cut for  
trunk when you can get at without  
difficult.

Penetrating wounds - may  
be complicated - with laceration incision  
When extract foreign body quickly  
have only to look for inflammation -  
gets away foreign body if can be done

When piece bone is cut out, and remains  
pus coming in from another part, closed  
when brain is sliced - If simple  
cut peck away, <sup>spec</sup> approximate edges  
look out for pus and let a small  
hole put a little strip but at  
not injury - 2. if bone be broken  
into frag - take away and loosely  
seal back and adhe - if bone  
not comm - bring bone back and  
sometimes attached by ligament - 3  
the loss of brain and prog - arrest  
brain by comp - and cold

When the brain is exposed and  
the scalp and the bone make  
a double cut - and bring the  
edges together (Hama Gerthi)  
The first human with the blood  
and tissue if work or 10 days  
have blood and subst brain  
in 1<sup>st</sup> take away an if from  
try and put it back by lime  
water and compression with  
shave off and supply the  
wale

Mass - apply lime water and give  
give mercury to reduce plasma of the  
blood - antiphlogistic - nearly always  
die - prognosis cautious



Wounds occurring in young skull  
only Antiphlogistic treatment -

vi - never compress over the Zygoma - too A  
as near inferior margin of Zygoma -

111 - From hunting gun - case of bullet  
entering forehead and lodge in brain - often  
perfectly sensible for some time however  
no fever - until 3 day when inflammation  
set in and he died - never try to  
get the bullet out - may become infected  
unless very superficial - does close  
the wound cover up with lint in warm  
water - if any foreign body gets in  
brain let alone - Cut on the skull

Sometimes cuts away piece of longitudinal  
sinus is cut after arrest hemorrhage  
by pledget lint tied over part or  
by circular ligature (a multiple  
paction) - *Iberrina Capetina*

Where patient has lost piece of  
brain and favorable symptoms - in fact  
we find the brain putting out - very  
terrible complication - here in  
these cases quick pulse rational  
is not aberration generally - if  
push back with rise from  
compression - Keep every thing  
like this away - fungus of  
brain - get rid and hinder the  
brain to prevent - cut off the

V. PUNCTURED WOUNDS.

*Causes.*  
*Symptoms.*  
*Prognosis.*  
*Diagnosis.*  
*Results.*  
*Treatment.*

VI. WOUNDS OF TEMPORAL ARTERY.

*Causes.*  
*Symptoms.*  
*Prognosis.*  
*Diagnosis.*  
*Results.*  
*Treatment.* - tie up artery - or compress

b. WOUNDS INVOLVING THE SCALP AND BONES.

I. INCISED, LACERATED, CONTUSED, OR PUNCTURED WOUNDS.

*Causes.*  
*Symptoms.*  
*Prognosis.*  
*Diagnosis.*  
*Results.*  
*Treatment.*

II. PENETRATING WOUNDS.

*Causes.*  
*Symptoms.*  
*Prognosis.*  
*Diagnosis.*  
*Results.*  
*Treatment.*

III. GUN-SHOT WOUNDS.

*Causes.*  
*Symptoms.*  
*Prognosis.*  
*Diagnosis.*  
*Results.*  
*Treatment.*

c. WOUNDS INVOLVING THE BRAIN AND ITS MEMBRANES, ETC.

*Varieties.*  
*Causes.*  
*Symptoms.*  
*Prognosis.*  
*Diagnosis.*  
*Results.*  
*Treatment.*

ENCEPHALOCELE AN OCCASIONAL PRODUCT OF THESE WOUNDS.

*Definition.*

*Symptoms.*

*Prognosis.*

*Diagnosis.*

*Results.*

*Treatment.*

II. DISEASES OF THE SCALP, &c. &c.

I. ERYSIPELAS.

See "Erysipelas."

II. ANTHRAX.

See "Anthrax."

III. TRAUMATIC NEURALGIA.

See "Neuralgia."

IV. PERICRANITIS.

V. THICKENING OF PERICRANIUM.

VI. TUMOURS OF THE SCALP.

See "Tumours."

III. FRACTURES OF THE BONES OF THE HEAD.

*Causes.*

*Varieties.*

*Parts of the cranium most liable to fracture.*

*Age most liable.*

*Symptoms.*—Depend on location of fracture, &c.

*Prognosis.*

*Diagnosis.*

*Mode of union.*

*Treatment.*

IV. CONCUSSION.

*Definition.*

*Extent or degree.*

*Causes.*

*Symptoms.*—Three groups—1. Stunning. 2. Loss of consciousness, &c.  
3. Convulsions, &c.

*Prognosis.*

*Diagnosis.*

*Anatomical examination.*

*Results.*

*Treatment.*



## Fractures of Bones of head -

portions more liable than others to fracture owing to difference of tissue  
careful in diagnosis - the force may be transmitted to temple from occiput - forehead  
fracture orbital plates - top of head the base of  
skull - often from force indirectly applied by  
convulsions stroke - Simple fissure by sharp inst  
continuous cracks on other side is Counter fissure  
old Huda. Multiple fracture not comminuted here  
only so in long bones - Comminuted fracture when  
the edges come together by being driven in  
or double depressed fracture - Simple depressed  
fracture where one edge driven in -

Stellate - where centre is depressed and  
number of fractures passing off in radii  
quiescently in internal table - In young  
head subject never happens - depression  
in young subject will heal and remain  
depressed and will disappear in a day  
or so - not so in adult - always have fracture  
fractured is always stellate - gutter owing to  
disease or malformation aid in diagnosis

Symptoms depend on character and  
location - Some have peculiar symp  
very in blow on occiput fracturing the  
bottom portion of temp - always have  
compression or concussion discharge  
from ear of blood and serum - from the  
brain or lateral sinus or brain - may  
rupture of meninges lymphatics may  
be injured here the amount of blood is  
too small



may compound - no more where  
the fracture is complicated with <sup>laceration</sup> of  
emphysema - distinction of eye - fracture  
orbital plate <sup>fracture</sup> - the most difficult  
is simple fracture - 1st thing for day  
space may pass time over it  
Sometimes rough - again no signs  
but effusion of blood - if can't  
find out must treat like fracture  
In depressed no difficulty in  
diagnosis - Compound often death have  
entering injured -

Treatment - Don't trephine for simple  
fractures unless it lacerates, bleed.  
if <sup>there is</sup> concussion - Antiphlogistic and  
aid by Mercury to diminish plasma of the  
If very much depressed and no injury  
of enter - if symptoms of compression  
trephine - if not dent of open part  
trephine to elevate as can't make  
him worse - Fracture of base very  
in same agents as in fracture  
patient generally dies - bleed &  
cols of Orbital plate don't open enter  
if can help - suck out thrombus & make  
cold appl - if can see and eye is  
safe don't open skin - frontal where  
sinks - Emphysema - open puncture  
3 in from seat of injury squeeze  
the air out - If depression of the  
outer table don't elevate unless compound  
fracture get out pieces

Concussion - Where the brain in consequence of a blow or shock of some kind is deprived of its power of sending forth and appreciating nervous communication. Extent of the concussion will depend on the violence of the injury and upon the place of its reception - there being three conditions which give separate sets of symptoms - 1<sup>st</sup> Where we have simple oscillation of the Brain 2<sup>nd</sup> Where the brain has been violently shaken and in consequence we have separation of the Dura Mater from the bone - 3 Where the injury has been so severe as to produce laceration of some of the fibres of the brain - Causes. Violent blows upon the head - fractures of the depressed bone resulting from such injuries, the transmission of shocks through the bones - Symptoms - in first form the person is merely stunned and he will be incoherent in his answers, will suffer from vertigo, but when spoken to is capable of replying, he possesses volition but ardently is not precisely in his right mind - 2<sup>nd</sup> form - These symptoms are aggravated complete unconsciousness is a result and as marked symptom absent in both of the other forms exists in the presence of Rausée and vomiting. In 3<sup>rd</sup> form - we have convulsive paralysis of the bladder and rectum or general paralysis of one or of both sides. Prognosis In simple stunning favorable though should be guarded for patients having no consequence of such injuries but then have through the causes of the bone the formation of pus



## Clamp - used

If blood - use every thing to absorb blood. Stimulate infuse - Strychnine - cold alcohol, but continued. If can't control him, If no shaking and not fracture look for seat of injury. If paralysis on one side of body have a guide, sometimes have no guide, always justifiable to trephine. Don't put in in operation and bone or in substance. Don't is a principle with tumor if found only membrane if brain surface can feel it never use knife, after that in Antiphlog - and Craniotomy. If pus - If found seat of infection more on opening found on the inside is in the middle of brain flat for fluctuation. operation - trephine -



Concussion Diagnosis is sometimes difficult but generally by critical attention and the exercise of judgment it may be accurately made out. In simple stunning is simple enough though we can not exactly tell the lesions that may be going on underneath the bones. Treatment In stunning, cold water swallowed in small quantity the placing of the patient in an horizontal position and in the bad cases the moderate use of stimulants will be sufficient to produce reaction - never bleed before this comes on - may kill the patient by doing so. Stimulants must be used with extreme caution since by their employment we risk adding to the subsequent reaction. Lophining may sometimes become necessary though if the lesion is so violent as to warrant the measure the patient has small chance of recovery. The proper means of doing this will be described under the head of treatment for compression.

Compression - Some agent - compact by undue pressure  
on the brain gives rise to the alteration of its functions  
as the formation of a clot the effusion of serum in the ventricle  
etc. - The brain may become accustomed to this pressure  
and the symptoms disappear. - The limbs will be  
gradual if the cause is slow. - When sudden  
have functional disturbance and  
organic lesions. - In the case more  
favorable prognosis. - Symptoms before  
Stupor, slow labored pulse differ from  
Cerebral - Stertorous breathing - dilatation  
and contraction of pupil - Pupil  
of spasm of one side of body -  
paralysis of one side of body -  
In the latter case the causes - etc.  
will give us diagnosis -  
If told patient walked about  
and no depression have blood  
if 1/2 hour depressed posture -  
If old case 10 or 12 days and  
mental alteration have  
~~the same~~ - If have no fever  
have blood - etc. - If have  
achill almost poor positive has  
pus developed - Prognosis  
If sudden depression - favorable  
Always take away bone - where  
coagulum in brain small sometimes  
upper if on side located, can't take  
if the the open brain - When  
the force open - gradual with course

## V. COMPRESSION OF THE BRAIN.

*Definition.*

*Illustration of the influence of pressure upon the brain.*

*Causes.*—Depressed bone, effused blood, collection of pus, &c.

*Symptoms.*—Depend on the nature of the cause.

*Prognosis.*—Depends on—1. Extent of surface involved. 2. Location of the compressing body. 3. Location with reference to depth. 4. Nature of compressing body. 5. Suddenness with which compression is applied.

*Diagnosis.*

*Manner of ascertaining the seat of the injury.*

*Manner of ascertaining the nature of the compressing body.*

*Dissection.*

*Results.*

*Treatment.*—Varies with cause.—

a. When the bone is depressed.

b. When effused blood is the cause.

c. When pus constitutes the compressing agent.

### TREPHINING.

*History of the operation.*

*Diseases of the head for which it is employed.*

*Dangers of the operation.*

*Parts to be avoided in applying the instrument.*

*The operation itself described.*

*Dressing.*

*After treatment.*

*Manner in which the opening is closed.*

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### PARACENTESIS.

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### INFLAMMATION OF BRAIN.—(See Effusion.)

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## II. INJURIES AND DISEASES OF THE SPINE.

*Classification.*

a. Injuries and diseases of the spinal column.

b. Injuries and diseases of the spinal marrow and its nerves. 1. Concentric diseases of the true spinal marrow. 2. Eccentric diseases or those attacking the incident or excitator nerves. 3. Diseases of the reflex, or motor nerves. 4. Spinal irritation.



a. INJURIES AND DISEASES OF THE SPINAL COLUMN  
ITSELF.

I. FRACTURES.

*Liability.*

*Causes.*—External violence directly or indirectly applied.

*Usual seat of fracture.*—Spines, bony bridges, and body.

*Division.*—1. Those occurring above the fourth cervical. 2. Those occurring below this point.

*Symptoms.*—Depend upon the location of the fracture and its extent.

*Prognosis.*—Depends on location and extent of fracture.

*Diagnosis.*—May be confounded with *luxation*, *concussion of spine*, *compression from effused blood*, *inflammation of marrow or its membranes*.

*Dissection.*

*Treatment.*

II. LUXATION.

*Liability.*

*Causes.*—External violence.

*Vertebra most liable.*—The cervical, especially the second.

*Division.*—1. Partial. 2. Complete.

*Symptoms.*—Depend on seat of injury and its extent.

*Prognosis.*—Depends on the seat and extent of injury.

*Diagnosis.*

*Dissection.*

*Treatment.*

III. SPONTANEOUS LUXATION OF THE FIRST CERVICAL.

*Definition.*

*Causes.*

*Symptoms.*—In 1st, 2d, and 3d stages.

*Progress.*

*Prognosis.*

*Diagnosis.*

*Dissection.*

*Treatment.*

IV. CURVATURE.

*Definition.*

*Varieties.*—1. Lateral, or scoliosis. 2. Posterior, or gibbus or cyphosis. 3. Anterior, or lardosis.

*Causes.*—Predisposing and immediate.

*Prophylaxis.*

*Symptoms.*—Depend on the variety of the defect.

*Prognosis.*—Depends on the age of the individual, the duration, cause, degree, and complication of the case.

*Diagnosis.*—May be confounded with *caries*, *partial paralysis*, *natural inequality in size of the two halves of the body*, &c.

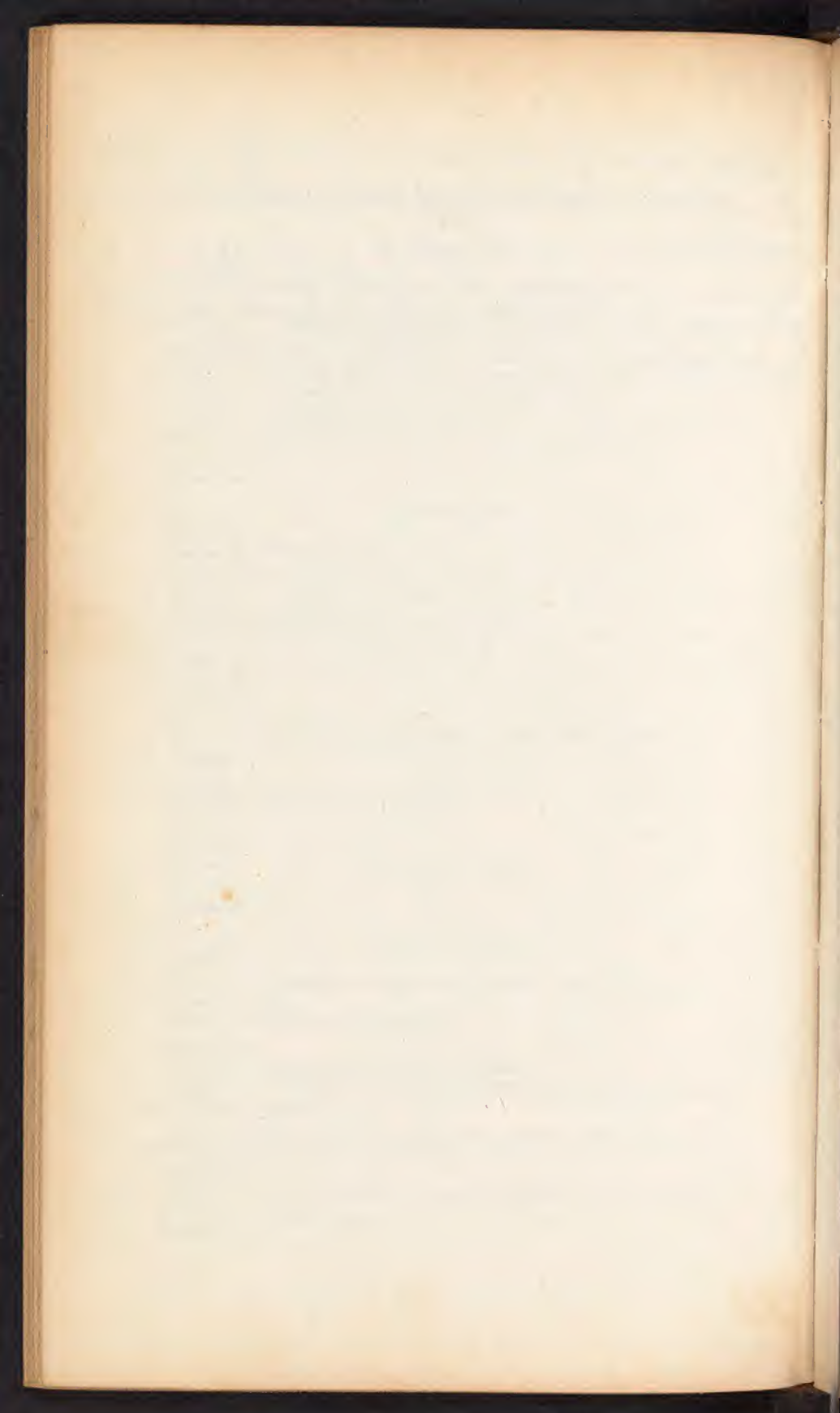
*Pathology.*

*Effects on the spinal column, its contents, and the health of the individual.*

*Question of marriage.*

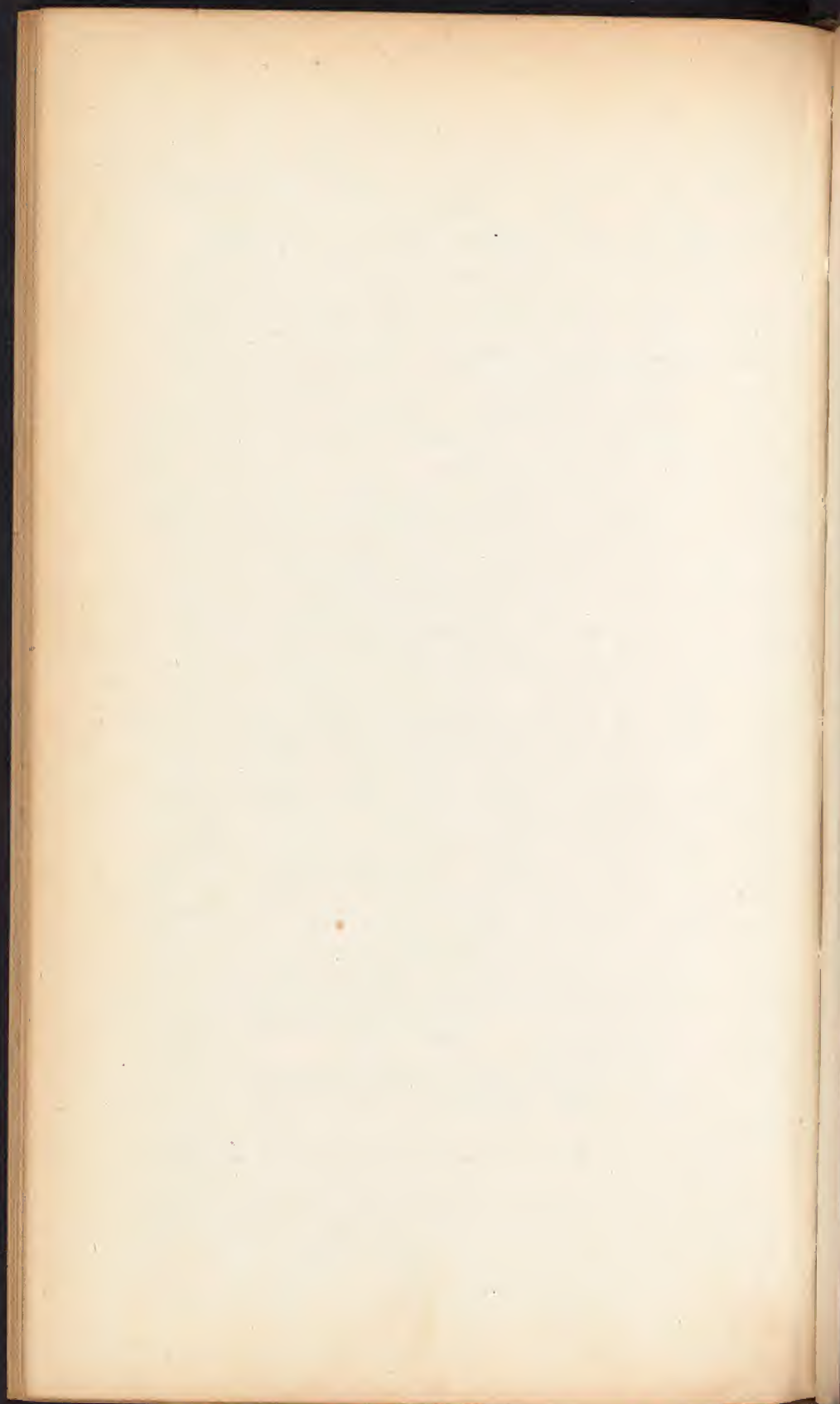
*Treatment.*

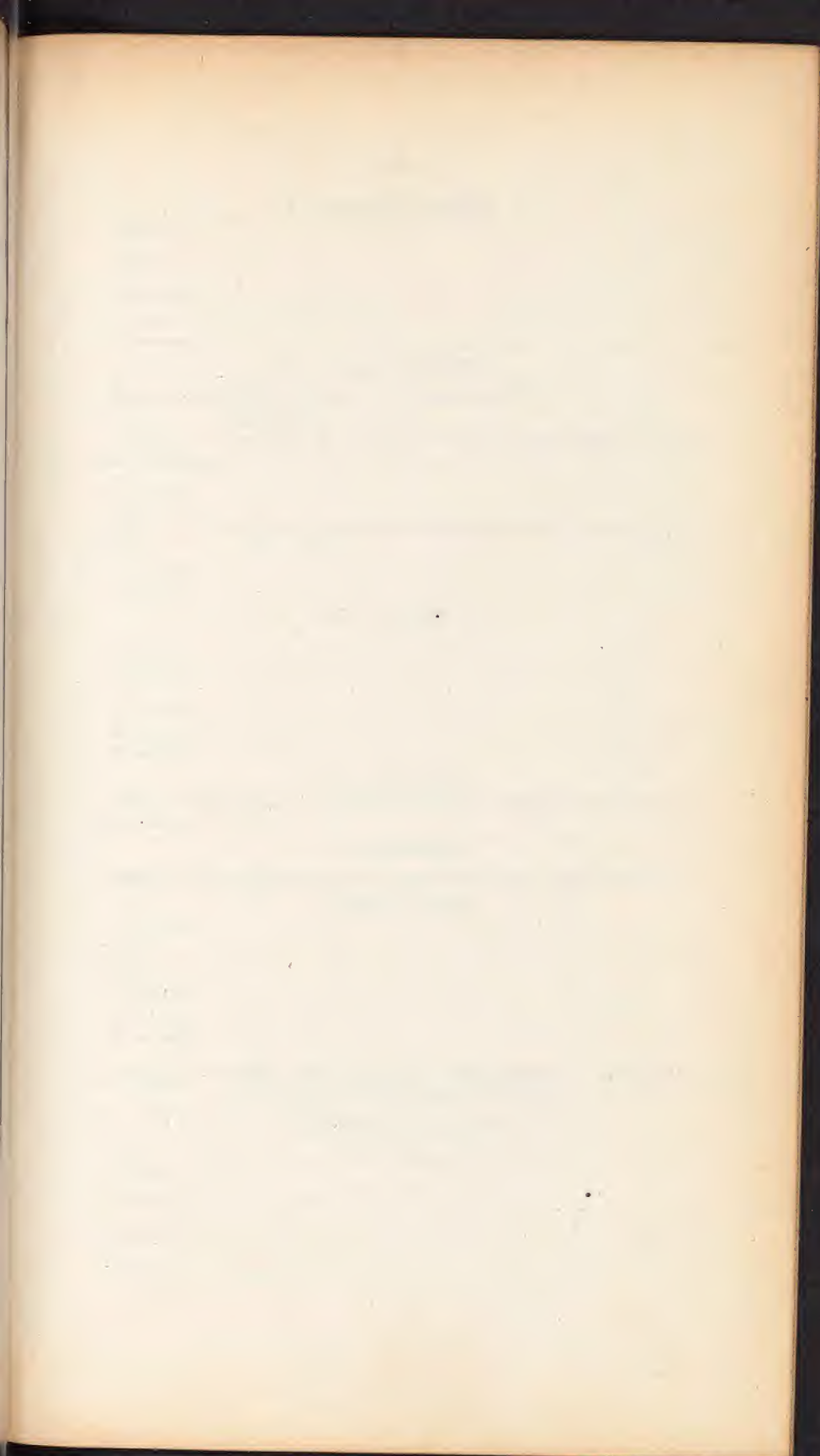
Fractures of the spine - Stability great from  
its exposed situation - causes - External violence  
may produce it by the amount of force being  
very great - again one falling from a high  
place on the feet may have a fracture  
in consequence of transmitted force



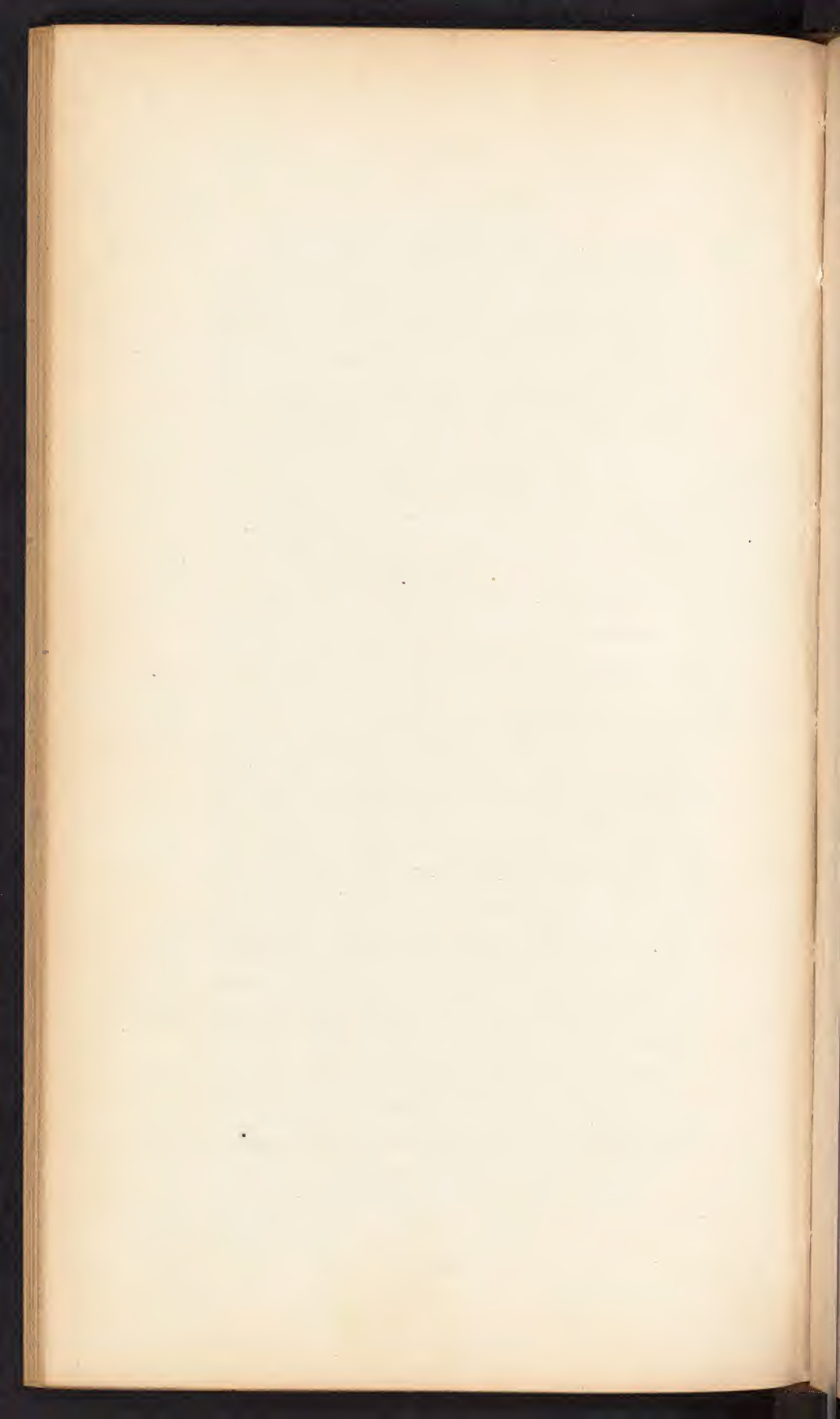












V. SHORTENED SPINE.

*Definition.*

*Causes.*

*Symptoms.*

*Prognosis.*

*Diagnosis.*

*Treatment.*

VI. CARIES OF SPINE.

*Liability.*—Children most liable ; may occur in adults.

*Causes.*—1. Constitutional. 2. Local.

*Symptoms.*—Vary in the 1st, 2d, and 3d stages ; and also depend on the age of the individual.

*Prognosis.*

*Diagnosis.*

*Effects upon the viscera of the thorax and abdomen, and general health of the patient.*

*Dissection.*

*Treatment.*

VII. ABSCESS.

*Causes.*

*Symptoms.*

*Prognosis.*

*Diagnosis.*

*Dissection.*

*Treatment.*

VIII. EXOSTOSIS.

*Effects of these tumours on the functions of the spine, and those of the adjacent viscera.*

IX. ANCHYLOSIS.

*Effects of this condition of the joints upon the functions of the column.*

X. SPINA BIFIDA.

*Definition.*

*Causes.*

*Symptoms.*

*Prognosis.*

*Diagnosis.*

*Treatment.*

b. INJURIES AND DISEASES OF THE SPINAL MARROW,  
ITS MEMBRANES AND NERVES.

I. CONCENTRIC DISEASES.

I. WOUNDS.

*Varieties.*

*Causes.*

*Symptoms.*

*Prognosis.*

*Diagnosis.*

*Treatment.*

II. CONCUSSION.

*Causes.*  
*Symptoms.*  
*Prognosis.*  
*Diagnosis.*  
*Treatment.*

III. COMPRESSION.

*Causes.*  
*Symptoms.*  
*Prognosis.*  
*Diagnosis.*  
*Treatment.*

IV. CONGESTION.

*Causes.*  
*Symptoms.*  
*Prognosis.*  
*Diagnosis.*  
*Treatment.*

V. INFLAMMATION, OR MYELITIS.

*Causes.*  
*Symptoms.*  
*Prognosis.*  
*Diagnosis.*  
*Dissection.*  
*Results, or products.*—Convulsions, epilepsy, paralysis agitans, either general or partial, tremor mercurialis.  
*Treatment.*

VI. INFLAMMATION OF THE MEMBRANES, OR SPINAL MENINGITIS.

*Causes.*  
*Symptoms.*  
*Prognosis.*  
*Diagnosis.*  
*Dissection.*  
*Treatment.*

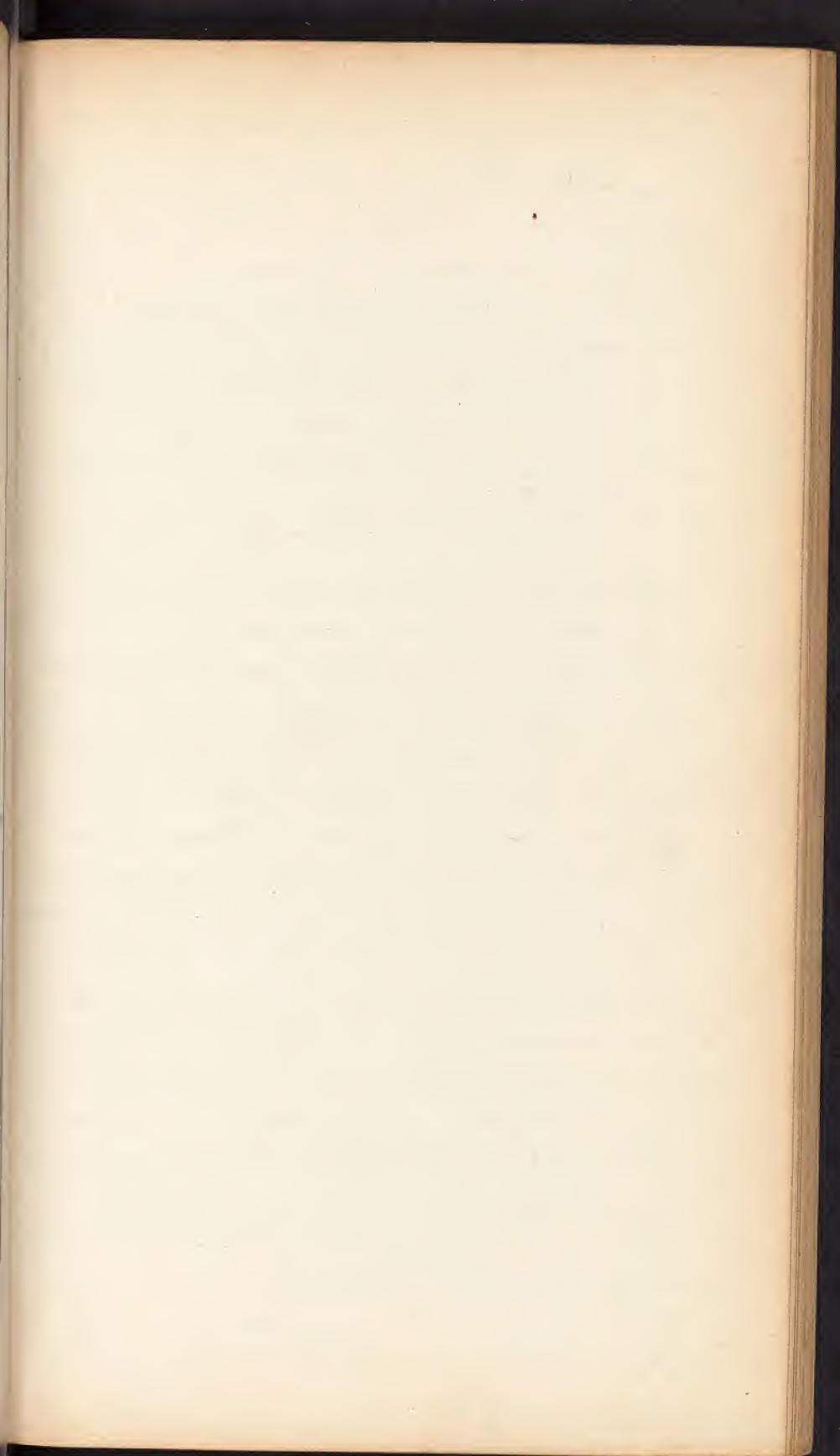
II. ECCENTRIC DISEASES, OR THOSE OF THE EXCITOR NERVES.

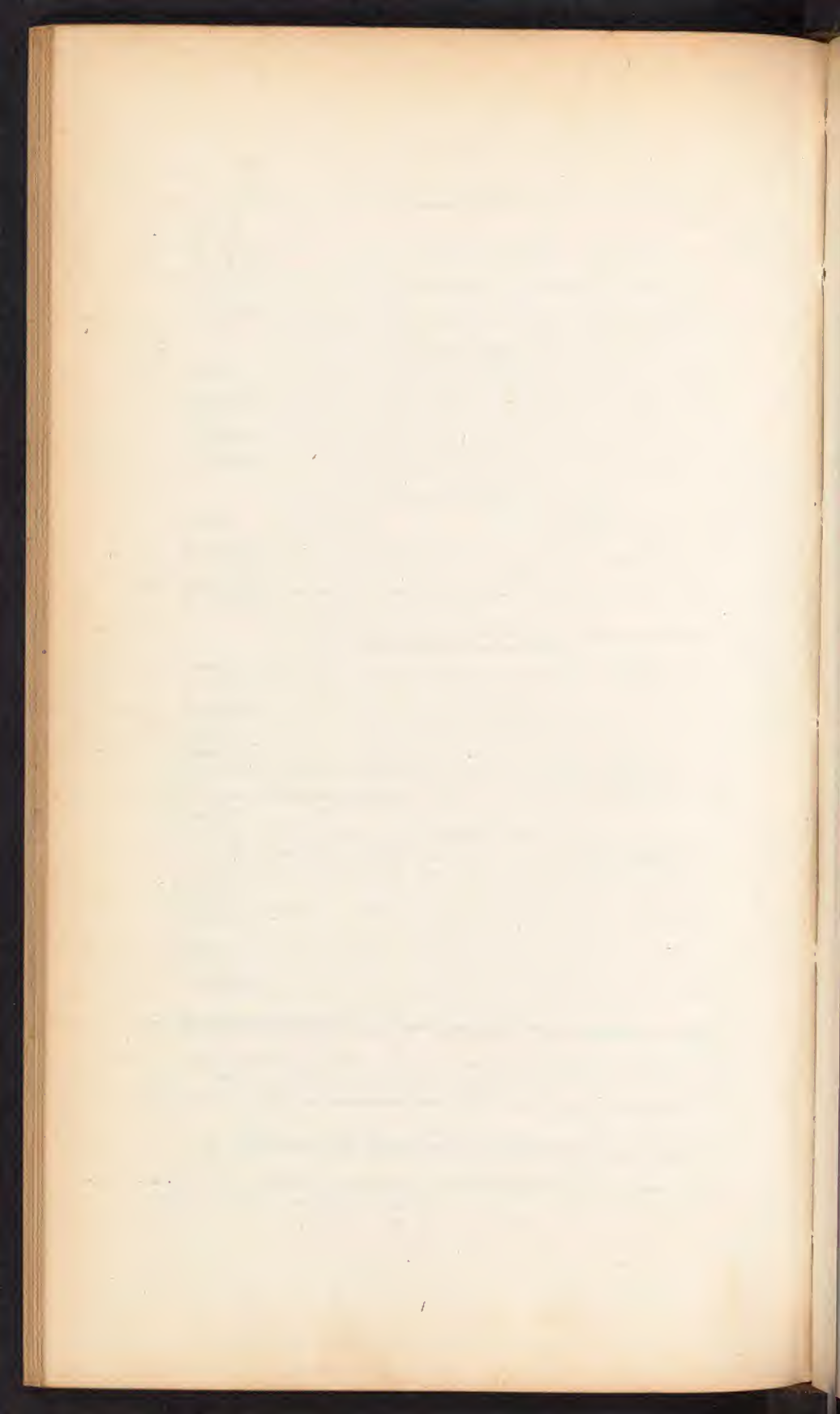
These are certain forms of epilepsy, puerperal convulsions, tetanus, hydrophobia, hysteria, chorea, stammering, asthma, vomiting, tenesmus, strangury, and abortion. Most of these affections are treated of under other heads.

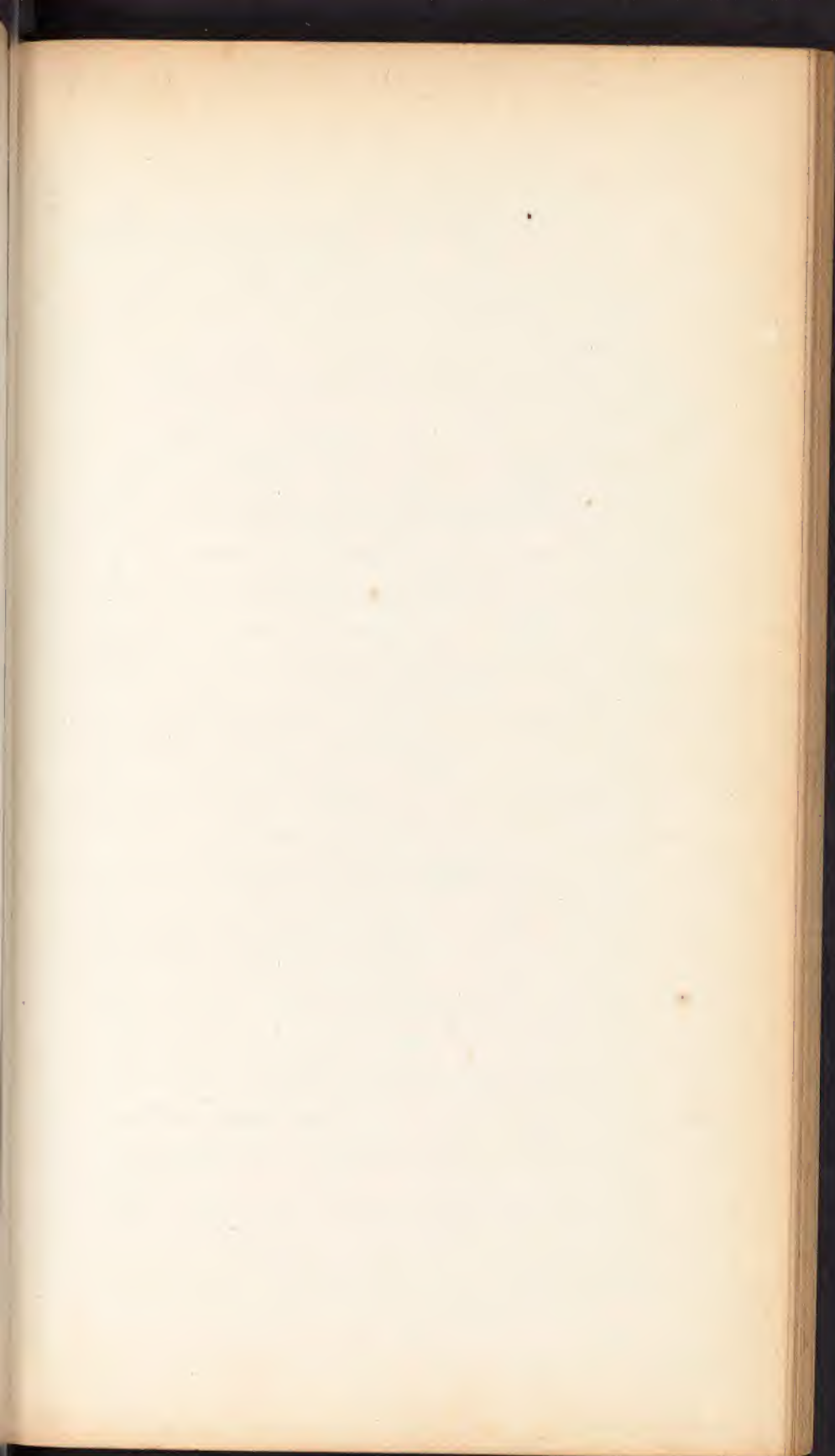
III. DISEASES OF THE REFLEX OR MOTOR NERVES.

Spasmodic strabismus, spasmodic tic, spasmodic torticollis, spasm of the respiratory nerves—already referred to.

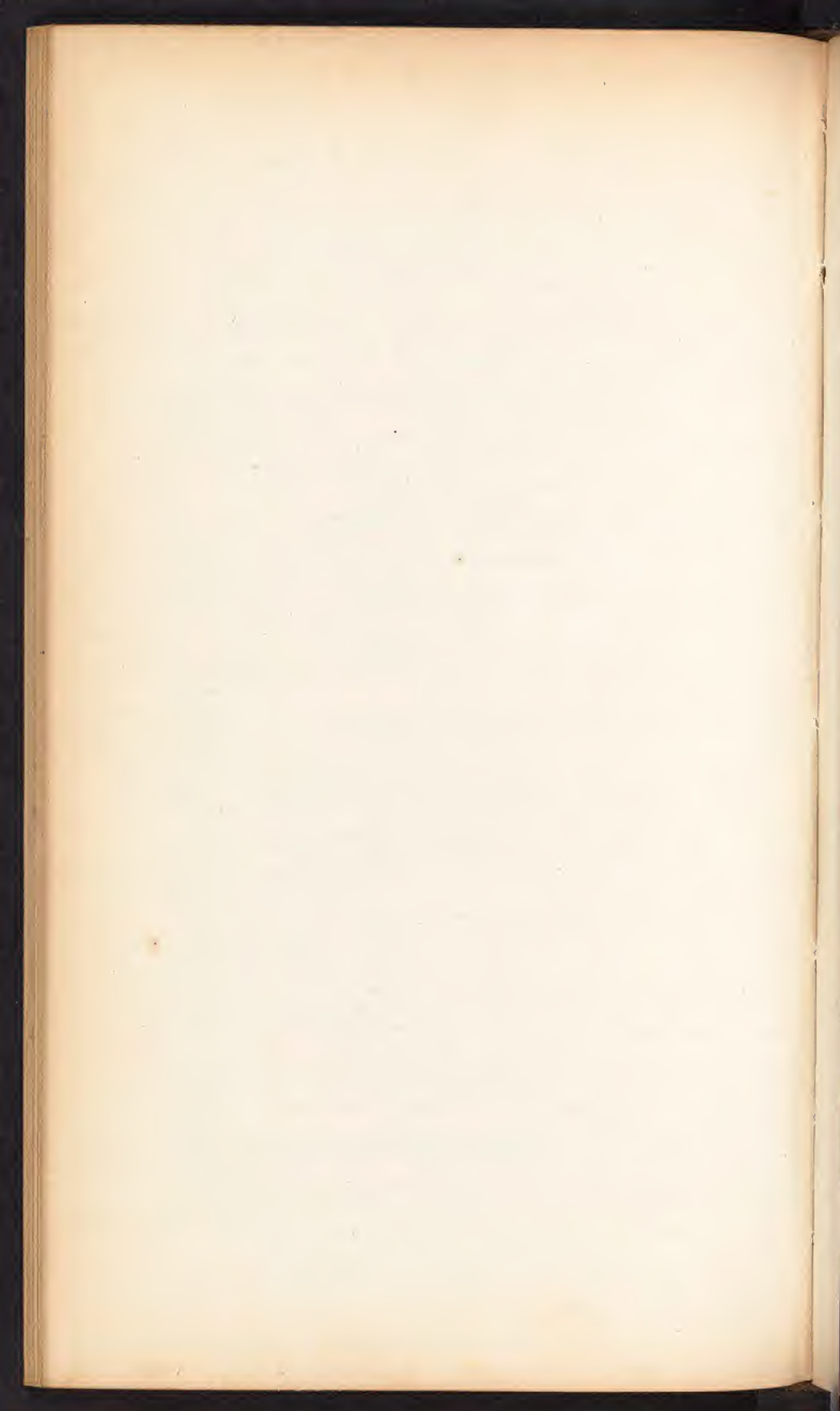


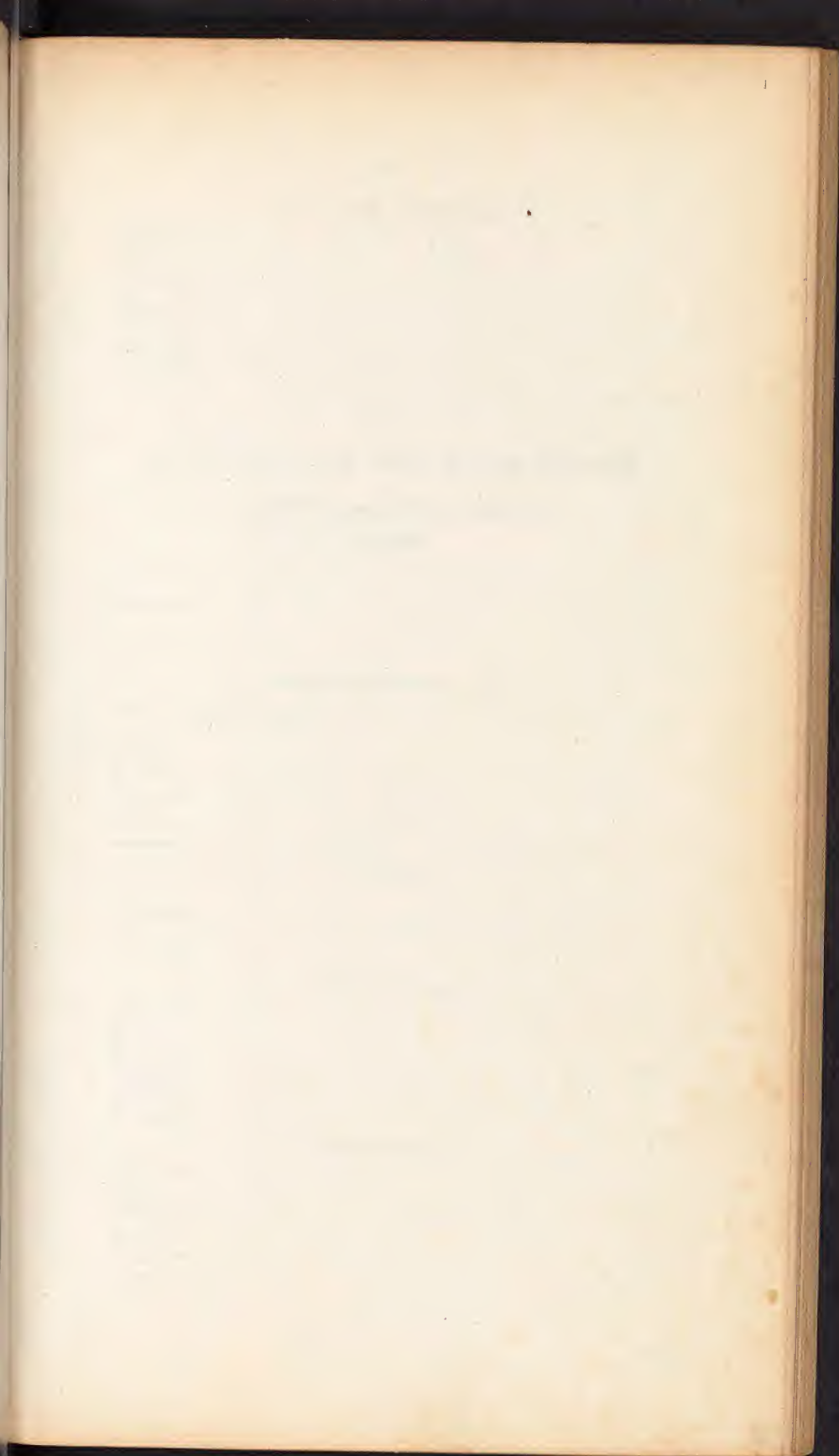


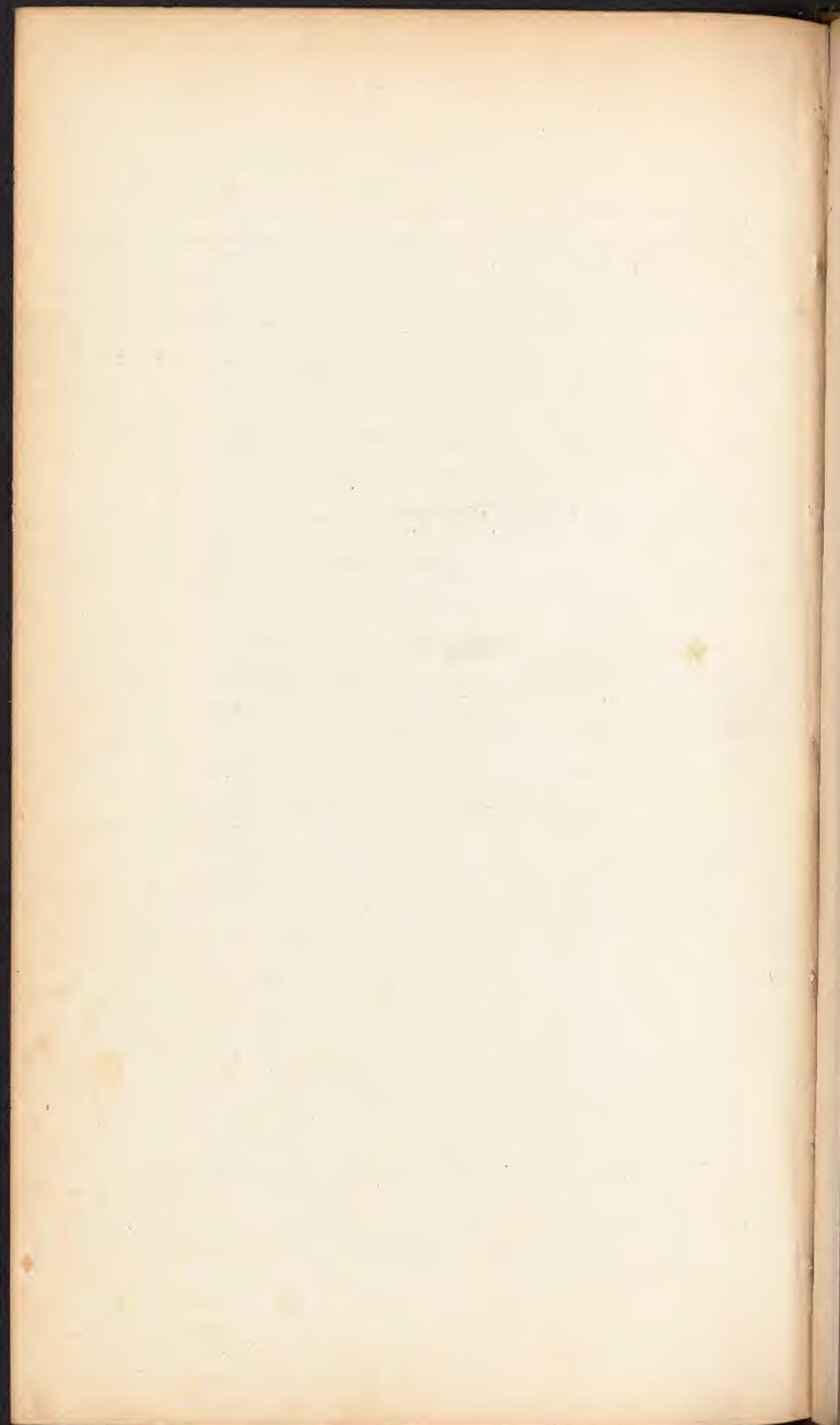














IV. SPINAL IRRITATION.

*Definition.*  
*Causes.*  
*Symptoms.*  
*Prognosis.*  
*Diagnosis.*  
*Dissection.*  
*Treatment.*

---

III. INJURIES AND DISEASES OF THE EYE.

I. INJURIES, &c. OF THE EYELIDS.

WOUNDS.

*Varieties.*  
*Symptoms.*  
*Prognosis.*  
*Results.*  
*Treatment.*

INFLAMMATION OF THE LIDS

*Texture usually involved.*  
*Causes.*  
*Varieties.*  
*Symptoms.*  
*Prognosis.*  
*Results.*  
*Treatment.*

CEDEMA.

*Causes.*  
*Symptoms.*  
*Prognosis.*  
*Treatment.*

OPHTHALMIA TARSI.

*Definition.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

PSOROPHTHALMIA.

*Definition.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

HORDEOLUM.

*Definition.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

TYLOSIS.

*Definition.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

MADAROSIS.

*Definition.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Treatment.*

TRICHIASIS.

*Definition.*  
*Causes.*  
*Symptoms.*  
*Prognosis.*  
*Treatment.*

DISTICHIASIS.

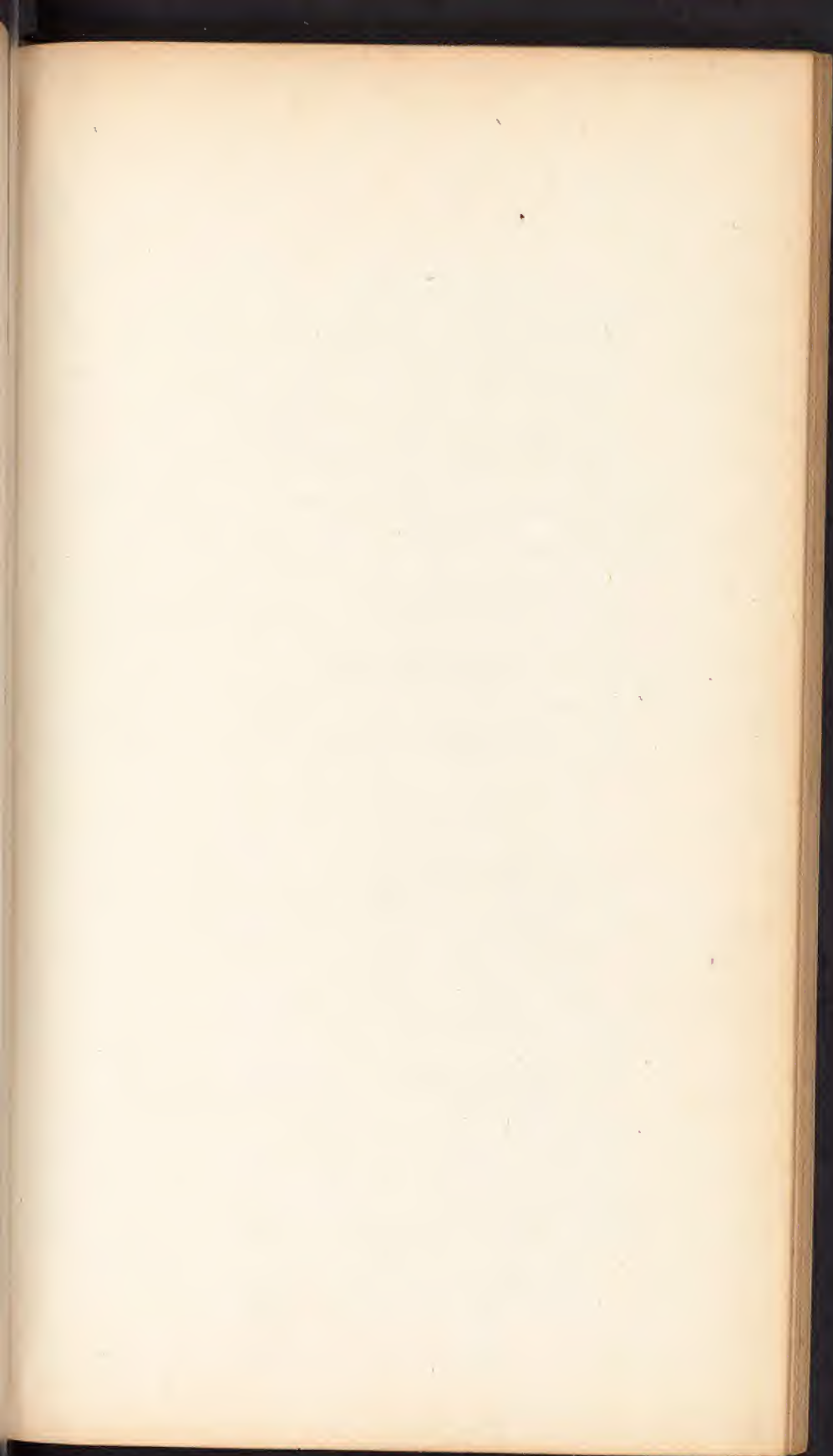
*Definition.*  
*Causes.*  
*Symptoms.*  
*Prognosis.*  
*Treatment.*

PTOSIS.

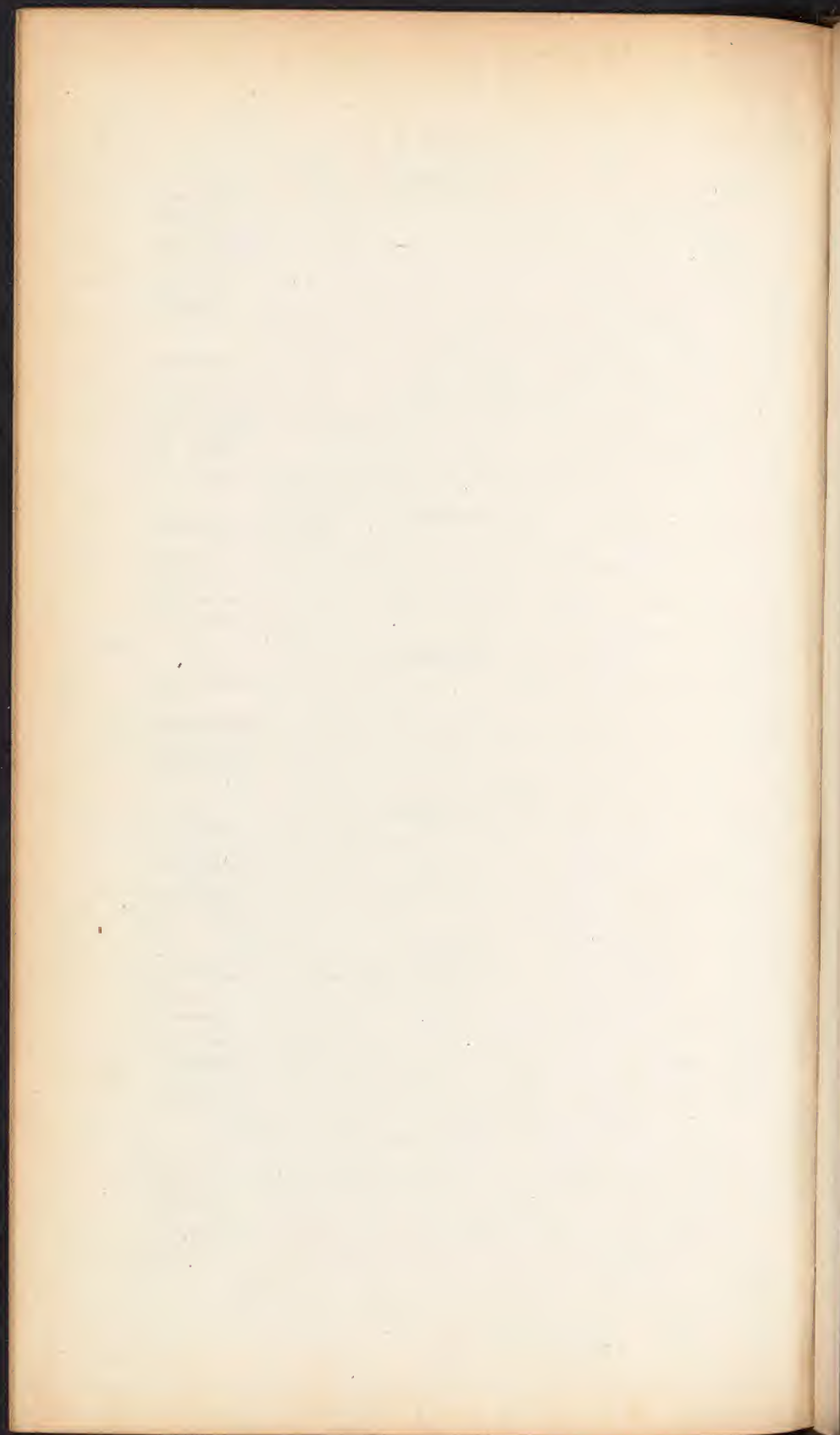
*Definition.*  
*Causes.*  
*Varieties.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

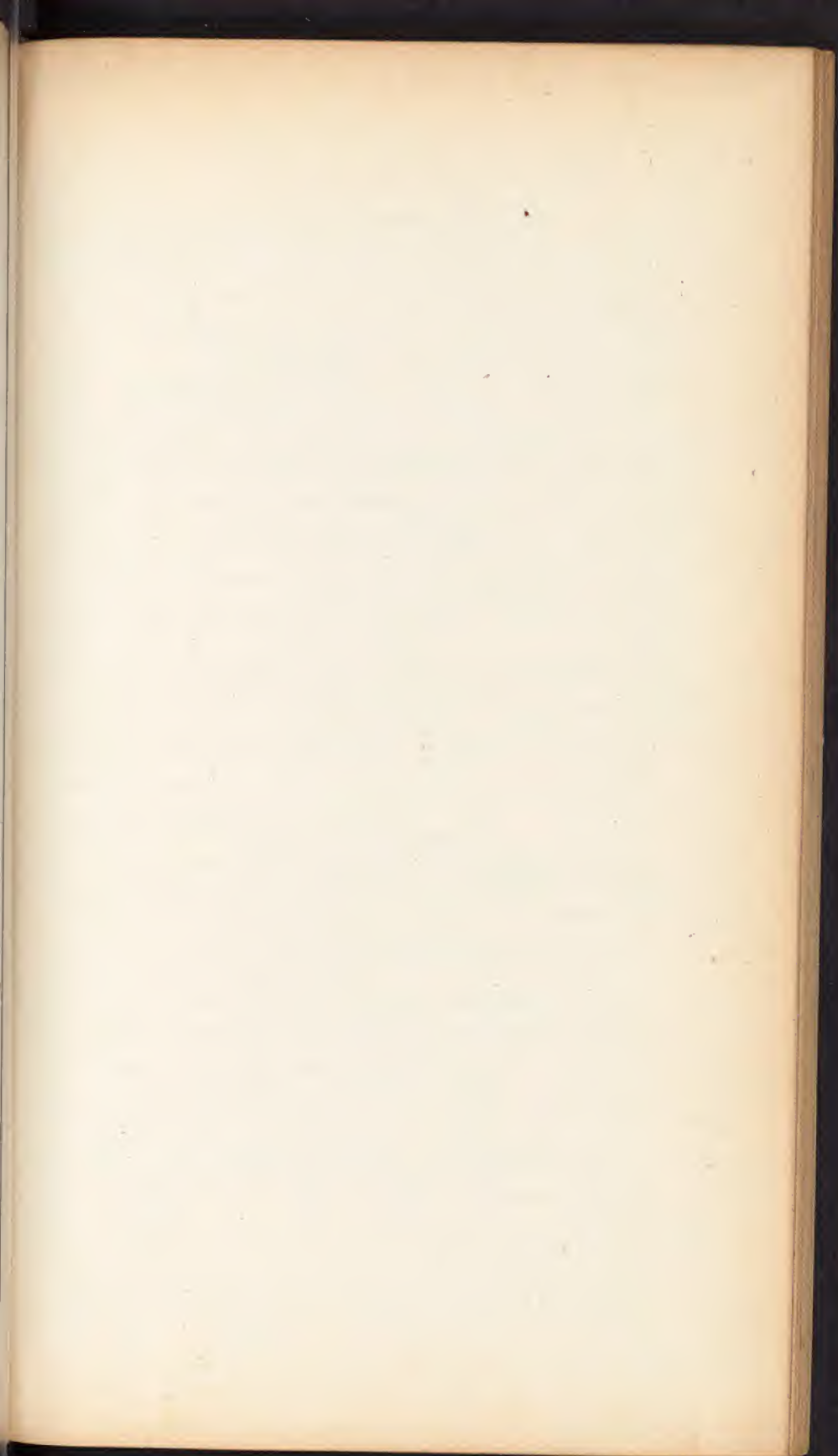
ECTROPIUM.

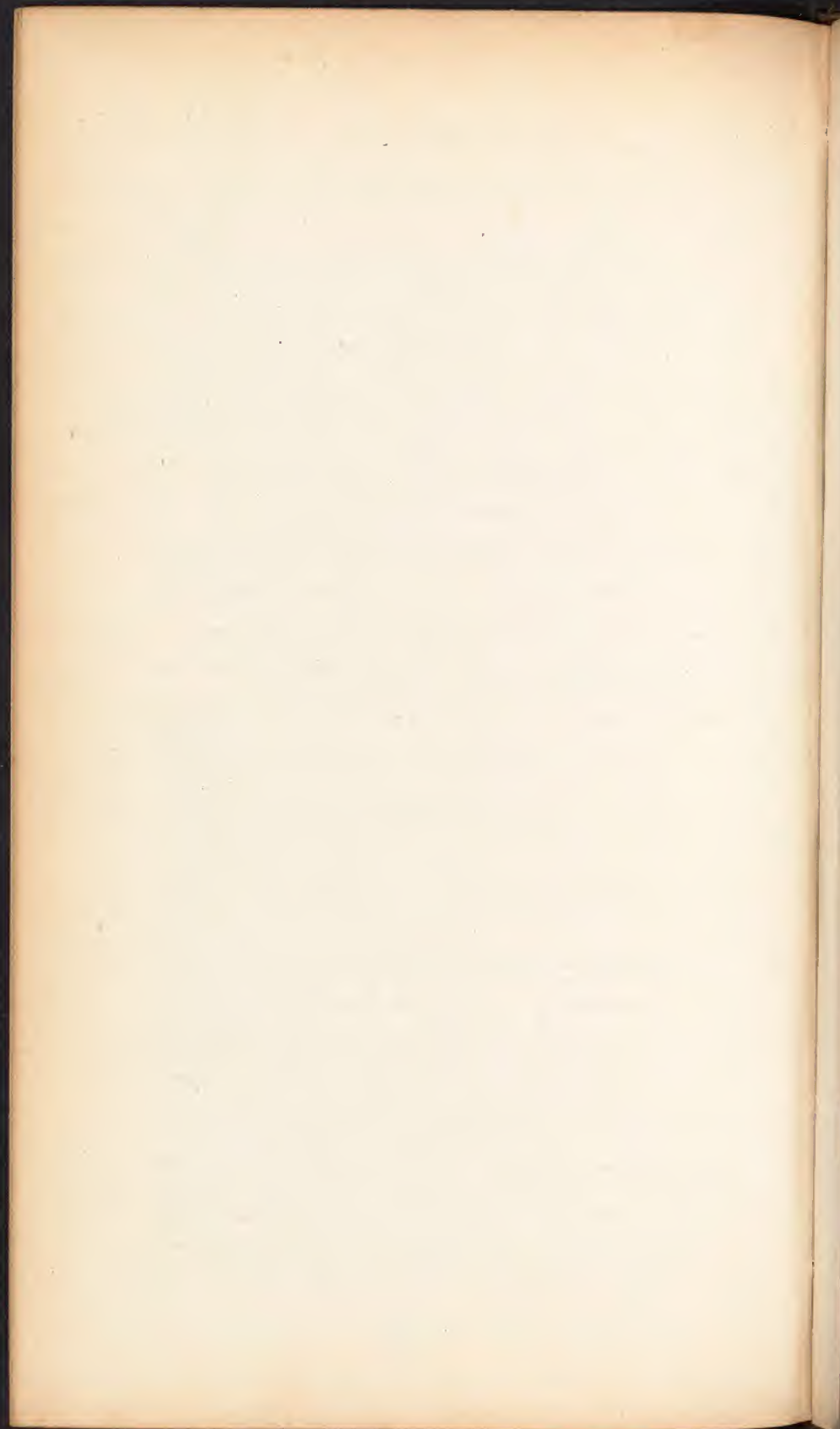
*Definition.*  
*Causes.*  
*Symptoms.*  
*Prognosis.*  
*Treatment.*

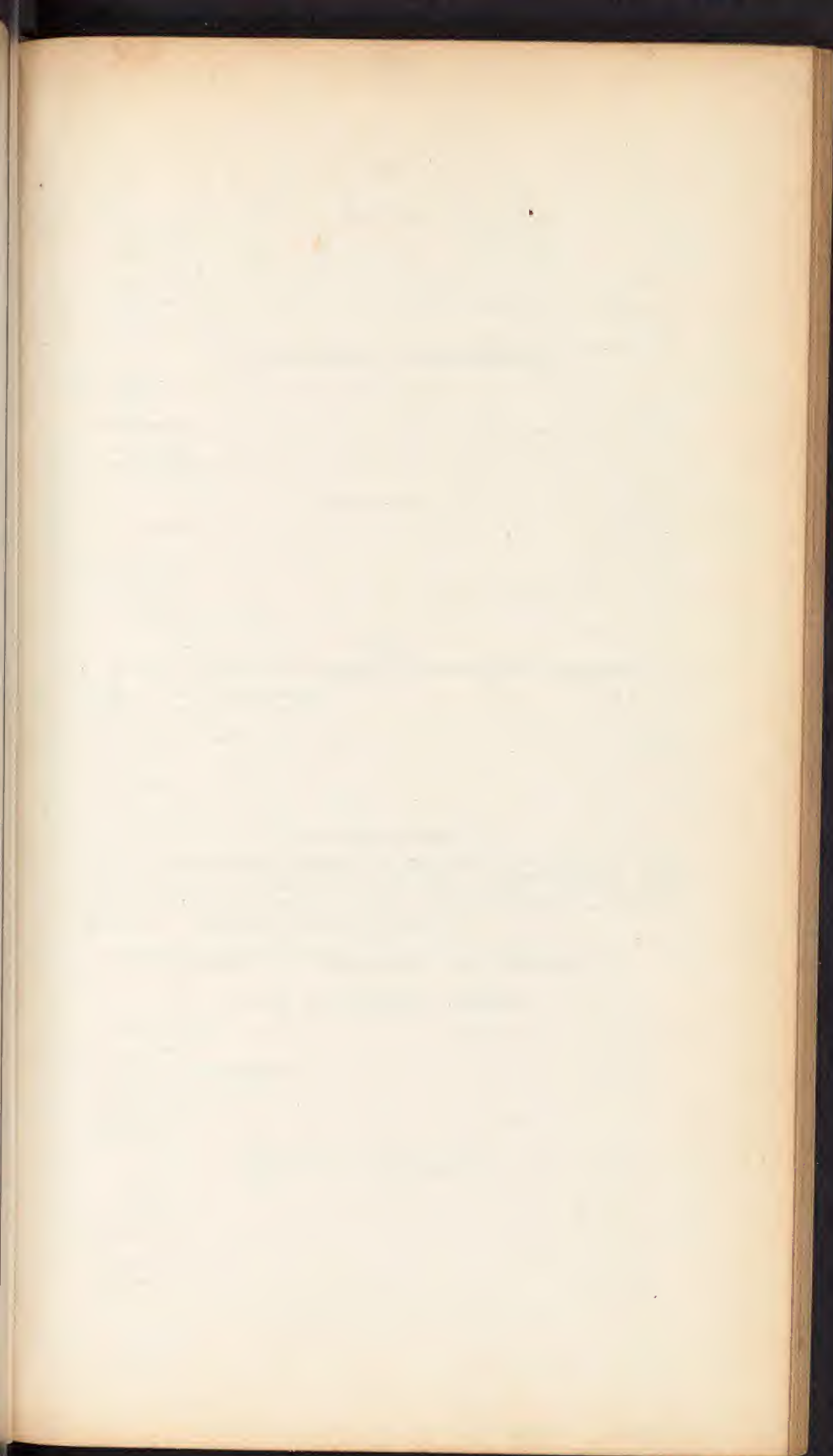




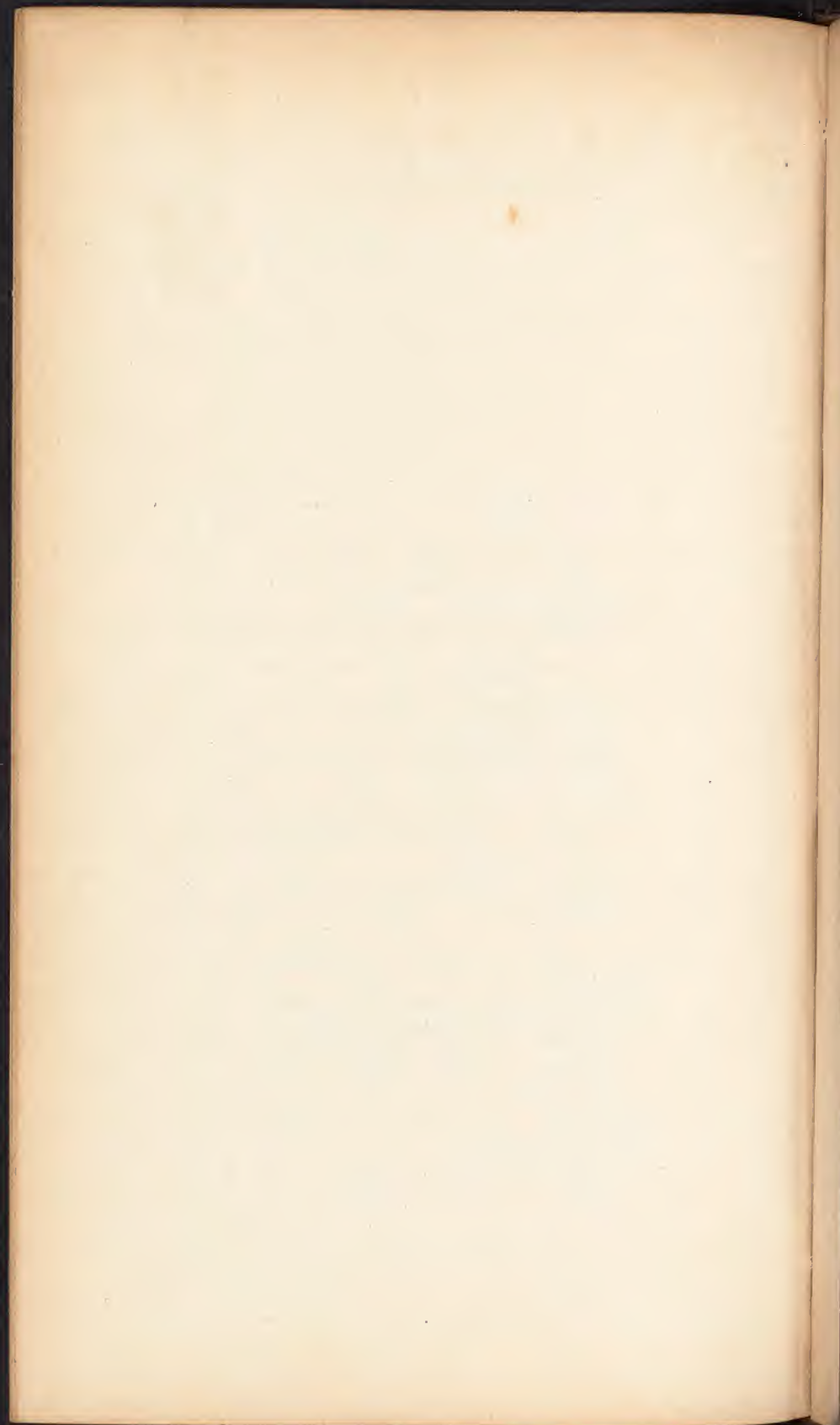












ENTROPIUM.

*Definition.*  
*Causes.*  
*Symptoms.*  
*Prognosis.*  
*Treatment.*

ANCYLOBLEPHARON AND SYMBLEPHARON.

*Definition.*  
*Causes.*  
*Symptoms.*  
*Prognosis.*  
*Treatment.*

EPICANTHUS.

*Definition.*  
*Causes.*  
*Symptoms.*  
*Prognosis.*  
*Treatment.*

TUMOURS.

*Varieties.*—Nævi materni, encysted, half-encysted, tarsal tumours, chalazion, or grando, milium, and verucæ.

*Causes of each.*  
*Symptoms of each.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

MALIGNANT DISEASES.

The lids, like all other portions of the body, are sometimes involved in malignant diseases, by which they are partially or entirely destroyed. These cases are generally troublesome, and often require an extensive operation for their relief. (See Blepharoplastic operations.)

II. INJURIES AND DISEASES OF THE CONJUNCTIVA.

FOREIGN BODIES LODGED IN THE EYE.

*Various kinds.*  
*Symptoms.*  
*Mode of examining the lids.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

WOUNDS OF THE CONJUNCTIVA.

*Varieties.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

SIMPLE INFLAMMATION OF CONJUNCTIVA.

*Causes.*—1. Constitutional. 2. Local.

*Symptoms.*

*Prognosis.*

*Diagnosis.*

*Effects of products.*

*Treatment.*—1. General. 2. Local.

CATARRHAL OPHTHALMIA.

*Definition.*

*Synonymes.*—Conjunctivitis catarrhalis, conjunctivitis purumucosa catarrhalis, ophthalmia purulenta metior, cold blight, &c.

*Causes.*—Cold in some shape, often accompanying influenza, and is occasionally epidemic.

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Seat of the affection.*—Seldom involves any other tissue than the conjunctiva.

*Terminations.*

*Treatment.*

PURULENT OPHTHALMIA.

*Definition.*

*Varieties.*—That of newly-born children, and that attacking adults. Acute and chronic.

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Terminations or products.*—1. Sloughing of cornea. 2. Ulceration. 3. Opacity of cornea. 4. Bursting of cornea. 5. Adhesion of iris. 6. Detachment of conjunctiva. 7. Staphyloma. 8. Ectropium, or Entropium.

*Treatment.*

GONORRHOEAL OPHTHALMIA.

*Definition.*

*Varieties.*—Acute, chronic, and that involving both the conjunctiva and sclerotic coat.

*Causes.*—Is it contagious?

*Symptoms.*—In each variety.

*Diagnosis.*

*Prognosis.*

*Effects.*

*Treatment.*

ERYSIPELATOUS OPHTHALMIA.

*Definition.*

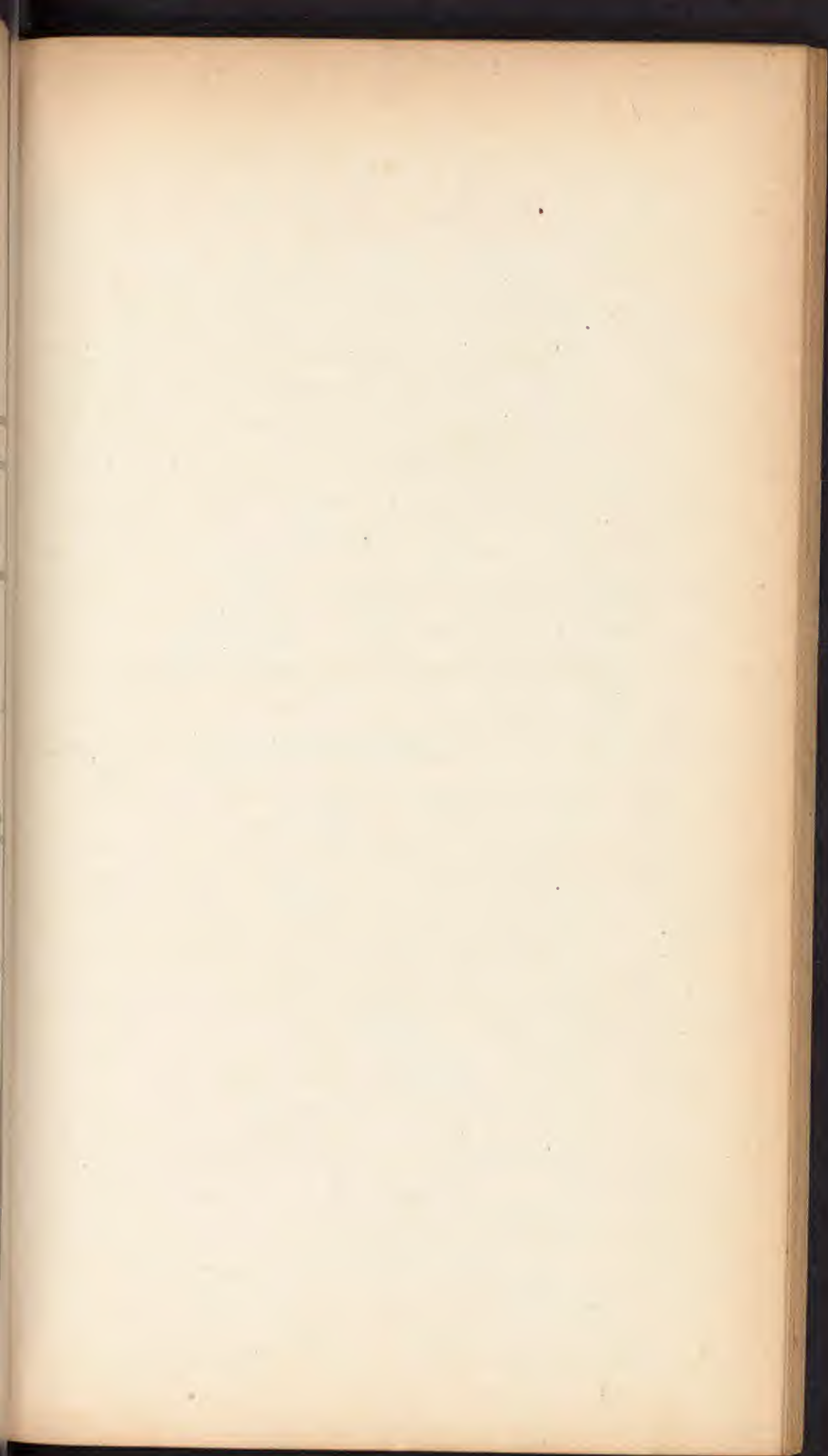
*Causes.*

*Symptoms.*

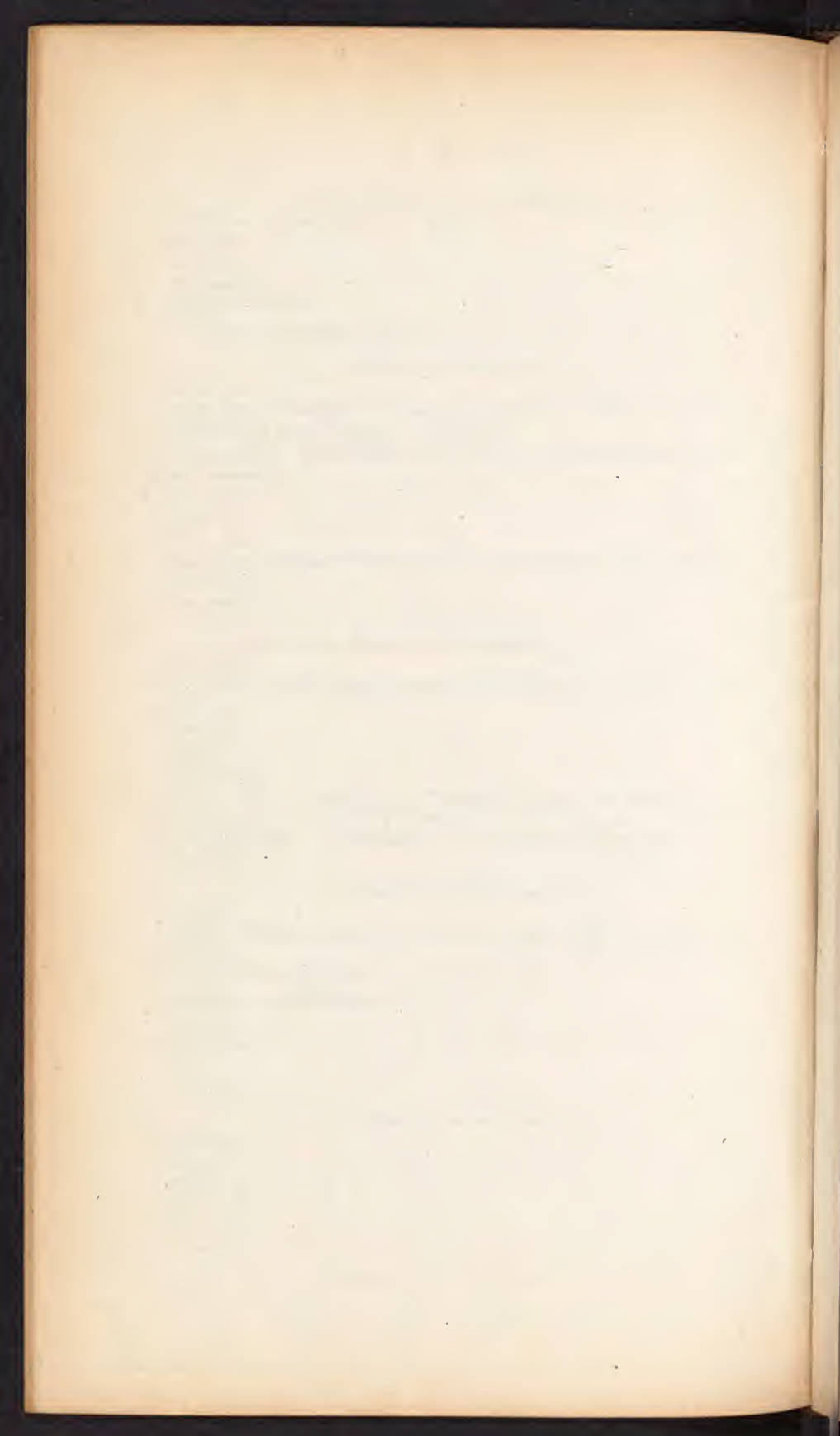
*Diagnosis.*

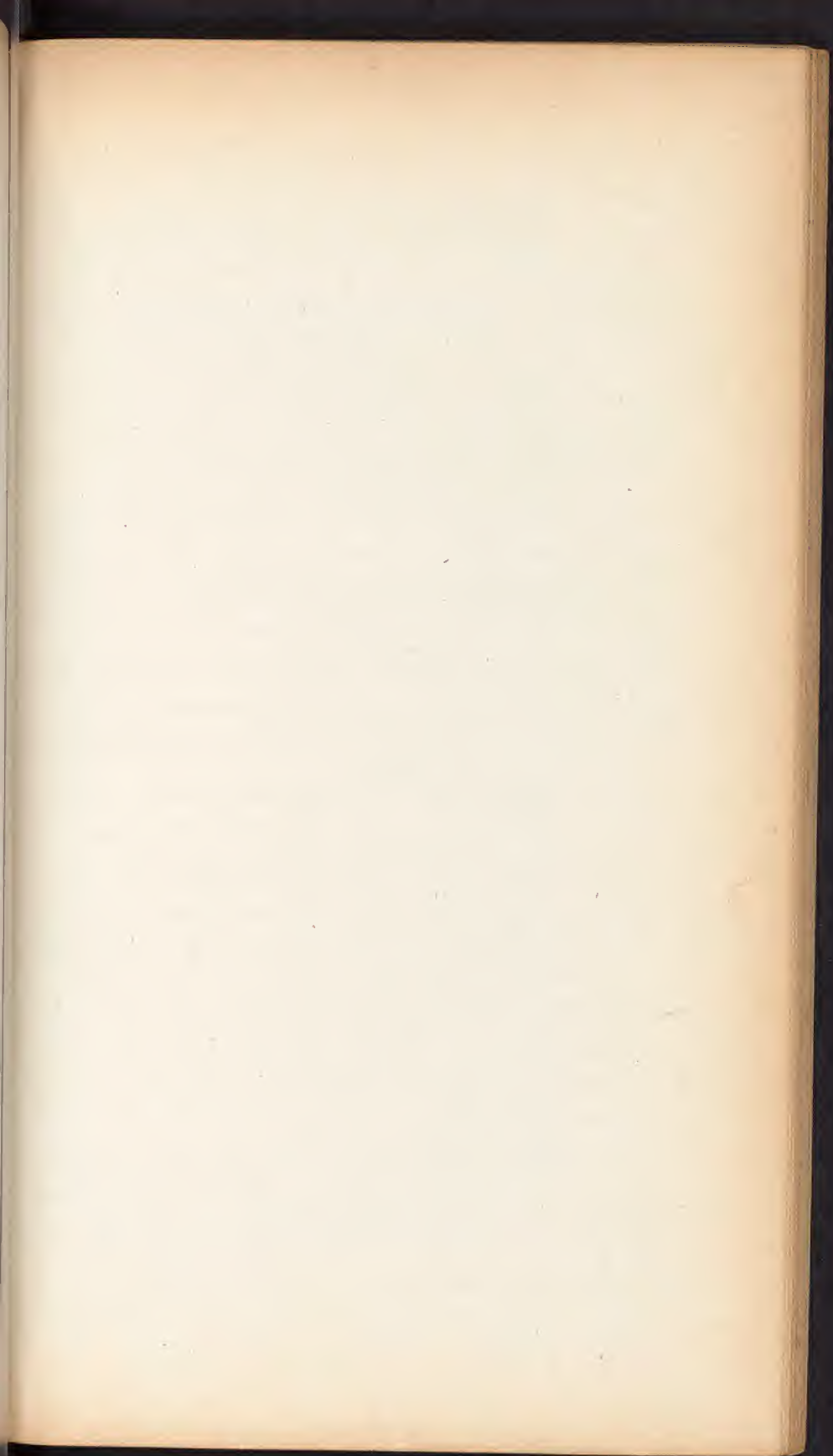
*Prognosis.*

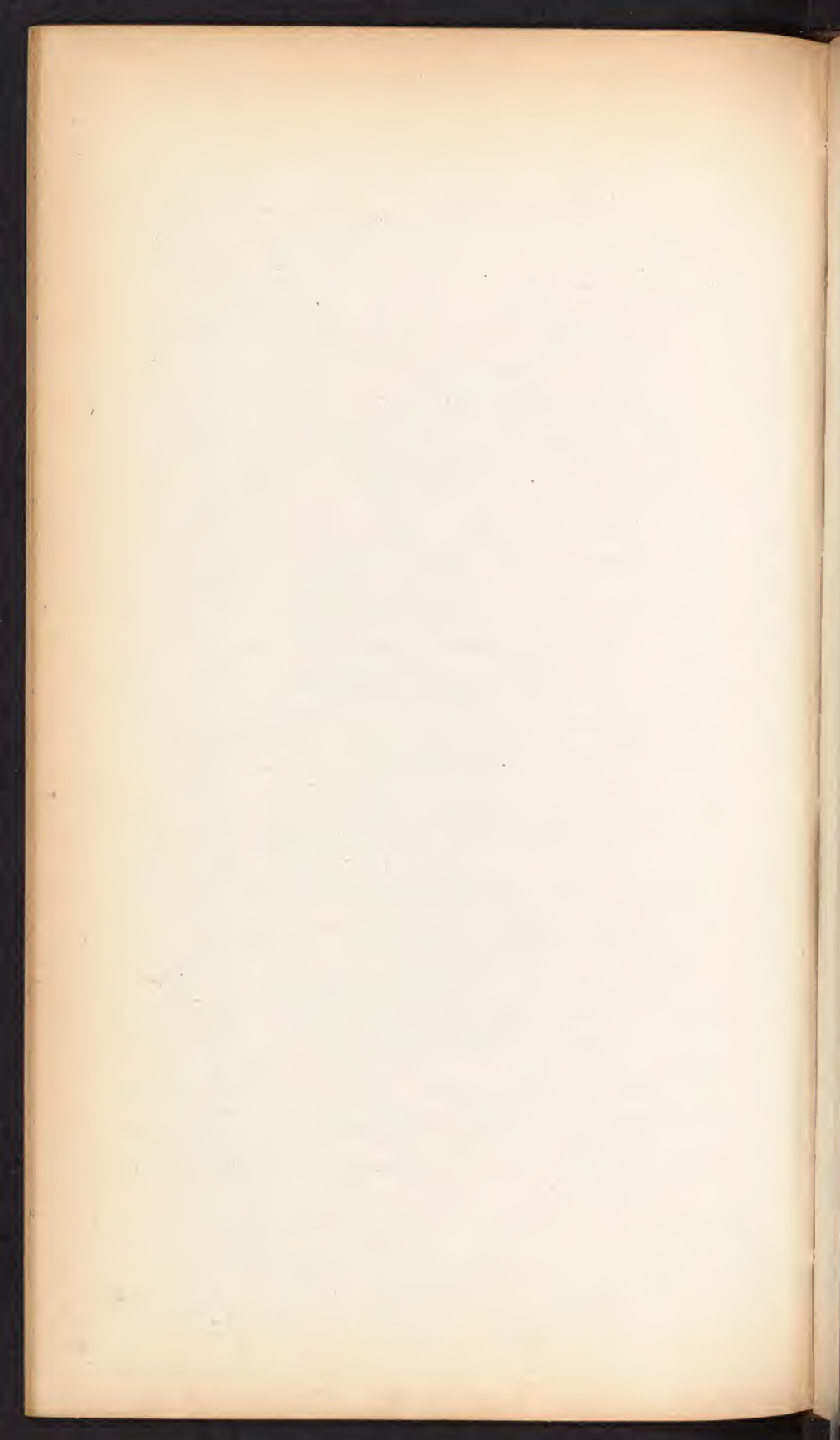
*Treatment.*

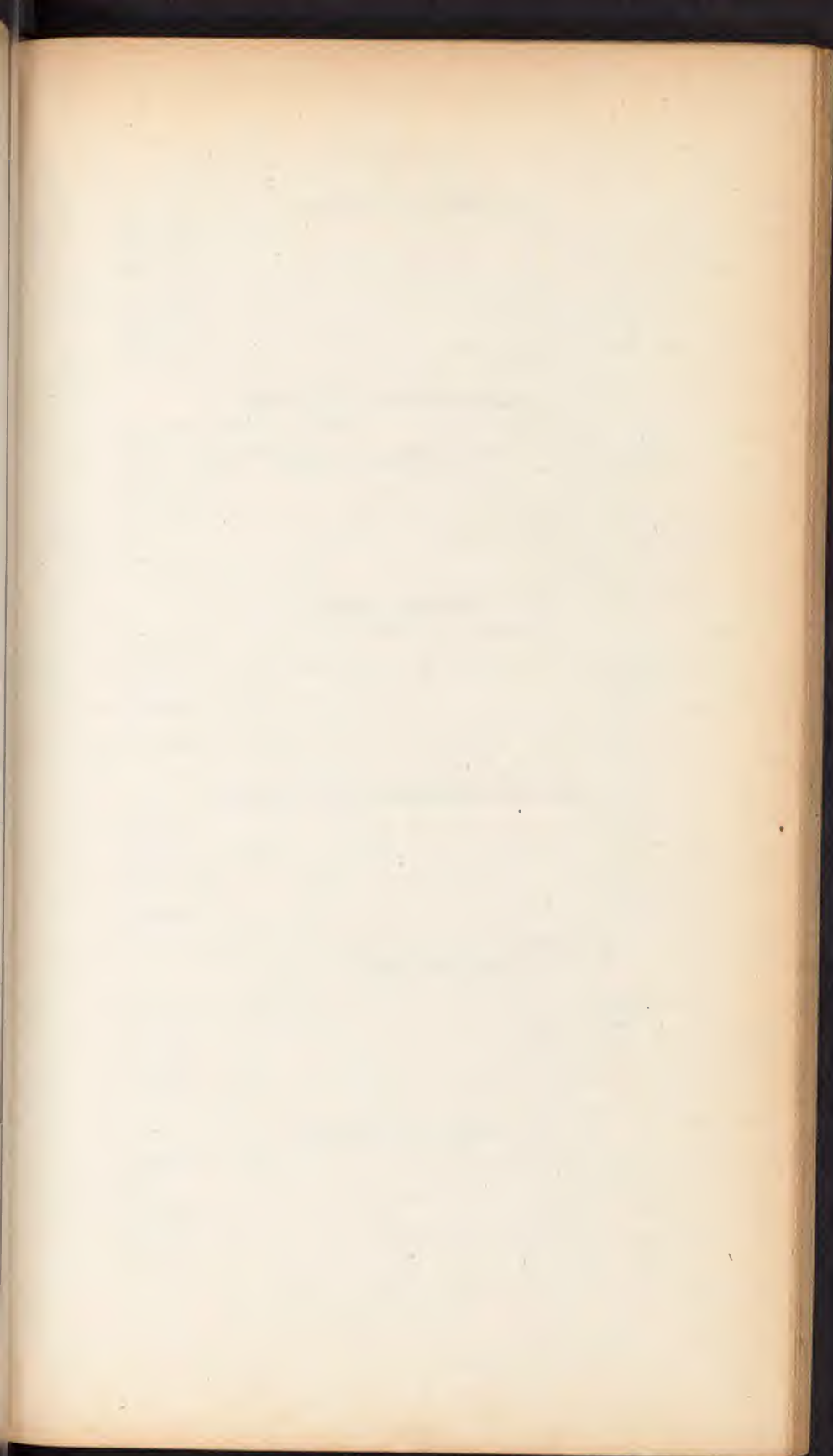




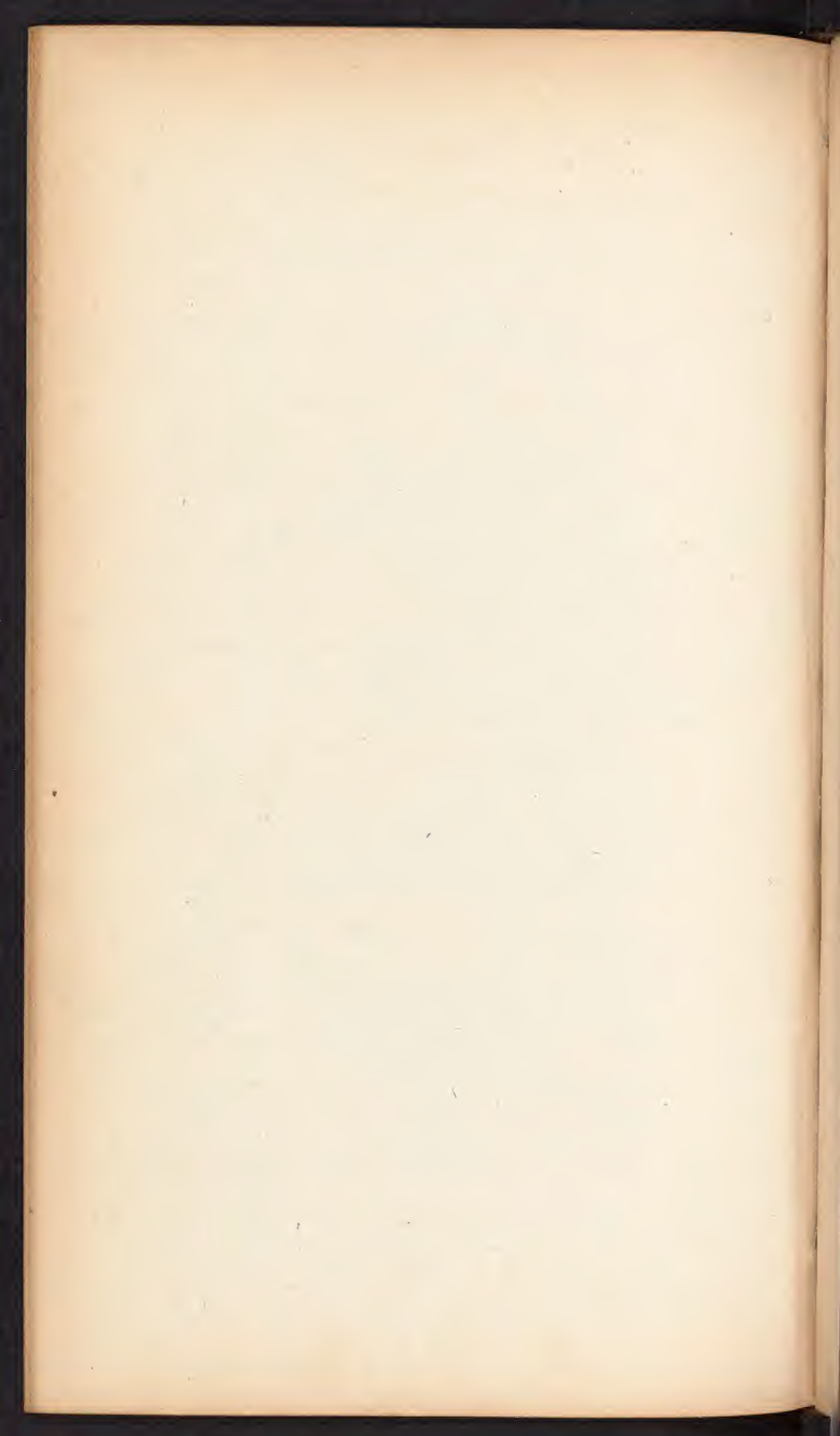












PUSTULAR OPHTHALMIA.

*Definition.*

*Causes.*

*Age most liable.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

SCROFULOUS OR STRUMOUS OPHTHALMIA.

*Definition.*

*Causes.*—1. Predisposing. 2. Exciting.

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Results.*

*Treatment.*

VARIOLOUS OPHTHALMIA.

*Definition.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

MORBILLIOUS AND SCARLATINOUS OPHTHALMIA.

*Definition.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

ULCERS OF THE CONJUNCTIVA.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

GRANULATED CONJUNCTIVA.

*Definition.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

HYPERTROPHY OF CONJUNCTIVA.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Effect on lids.*  
*Treatment.*

PTERYGIUM.

*Definition.*  
*Varieties.*—1. Tenue. 2. Crassum. 3. Malignant. 4. Single. 5. Pannus.  
*Location.*—Usually the inner canthus.  
*Age most liable.*—Adult.  
*Causes.*—Often obscure.  
*Symptoms and growth.*  
*Diagnosis.*  
*Prognosis.*  
*Pathology.*  
*Treatment.*

XEROMA, OR DRY CONJUNCTIVA.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

POLYPI, WARTS, AND OTHER EXCRESCENCES OF THE CONJUNCTIVA.

*Characteristics of these tumours.*  
*Causes.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

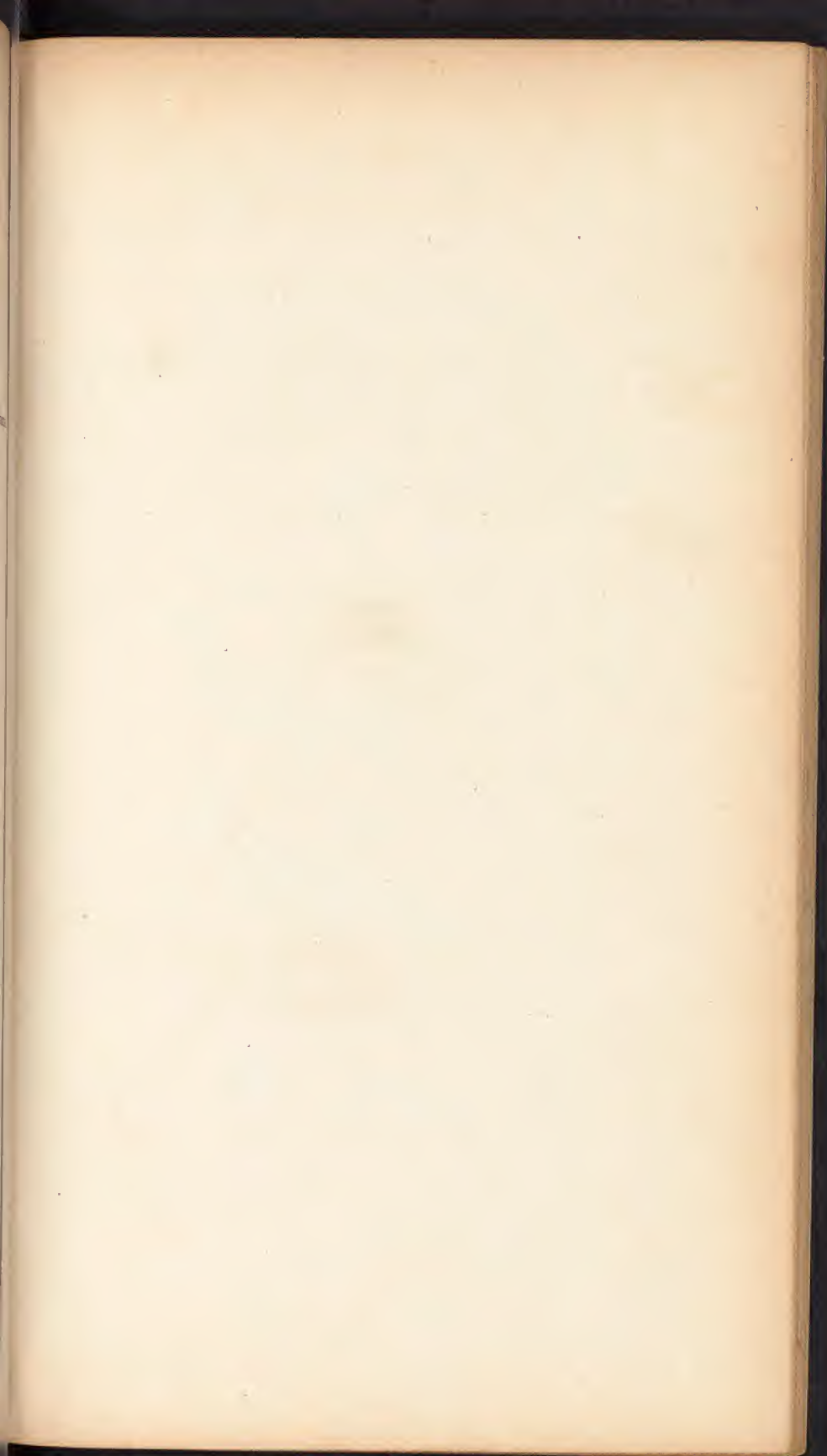
III. INJURIES AND DISEASES OF THE CORNEA.

WOUNDS.

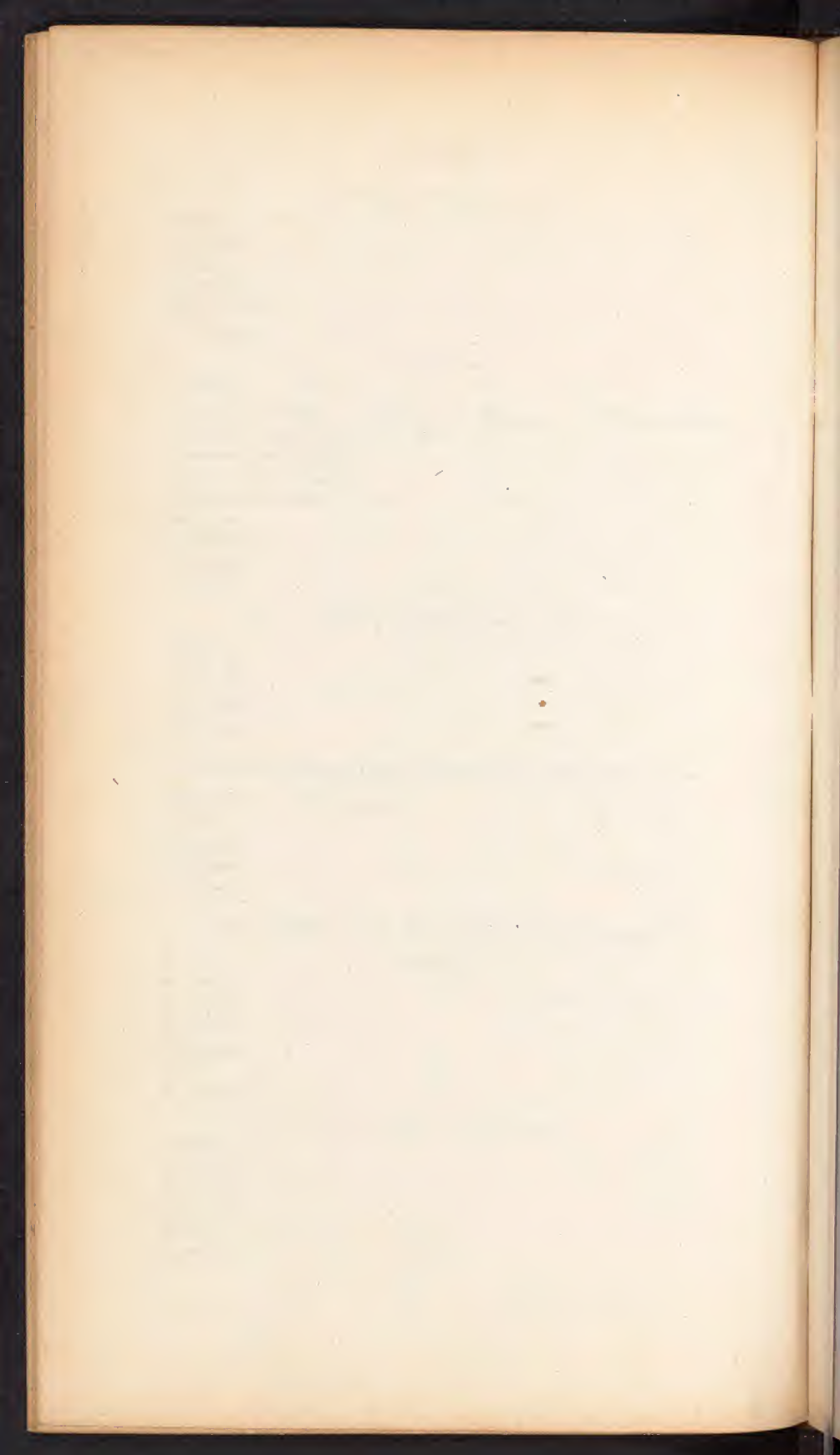
*Varieties.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Effects.*  
*Treatment.*

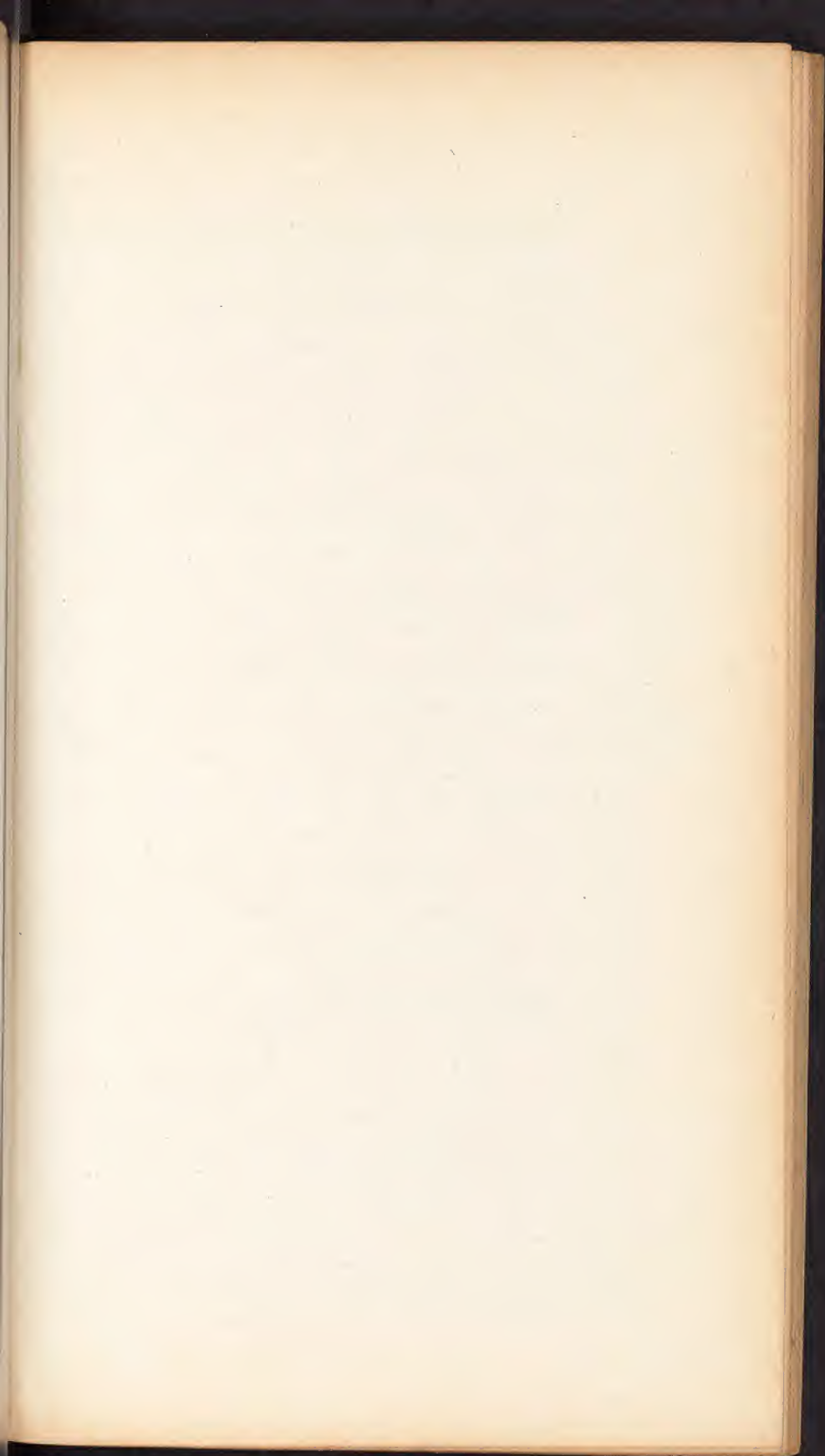
FOREIGN BODIES IN THE CORNEA.

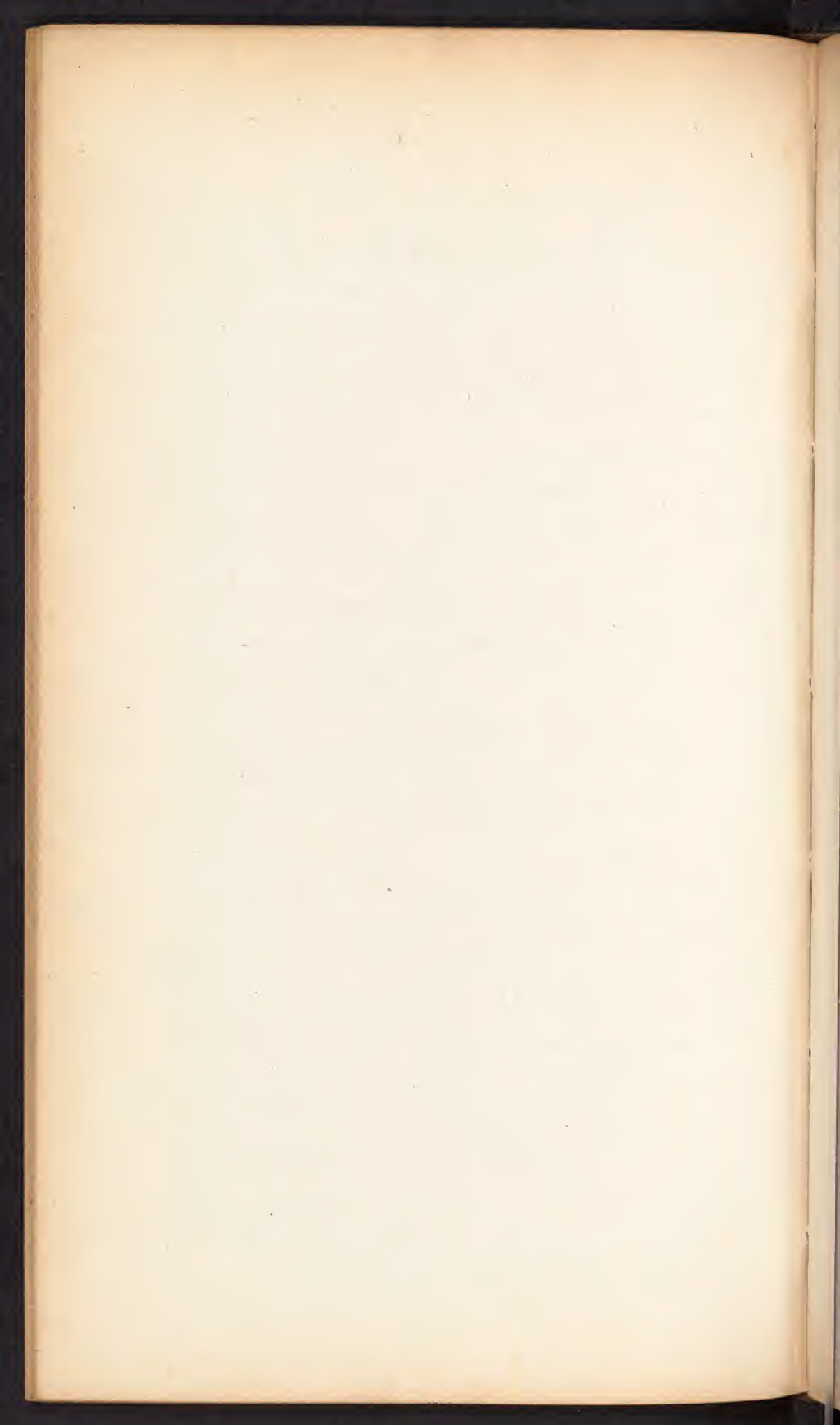
*Varieties.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Effects.*  
*Treatment.*

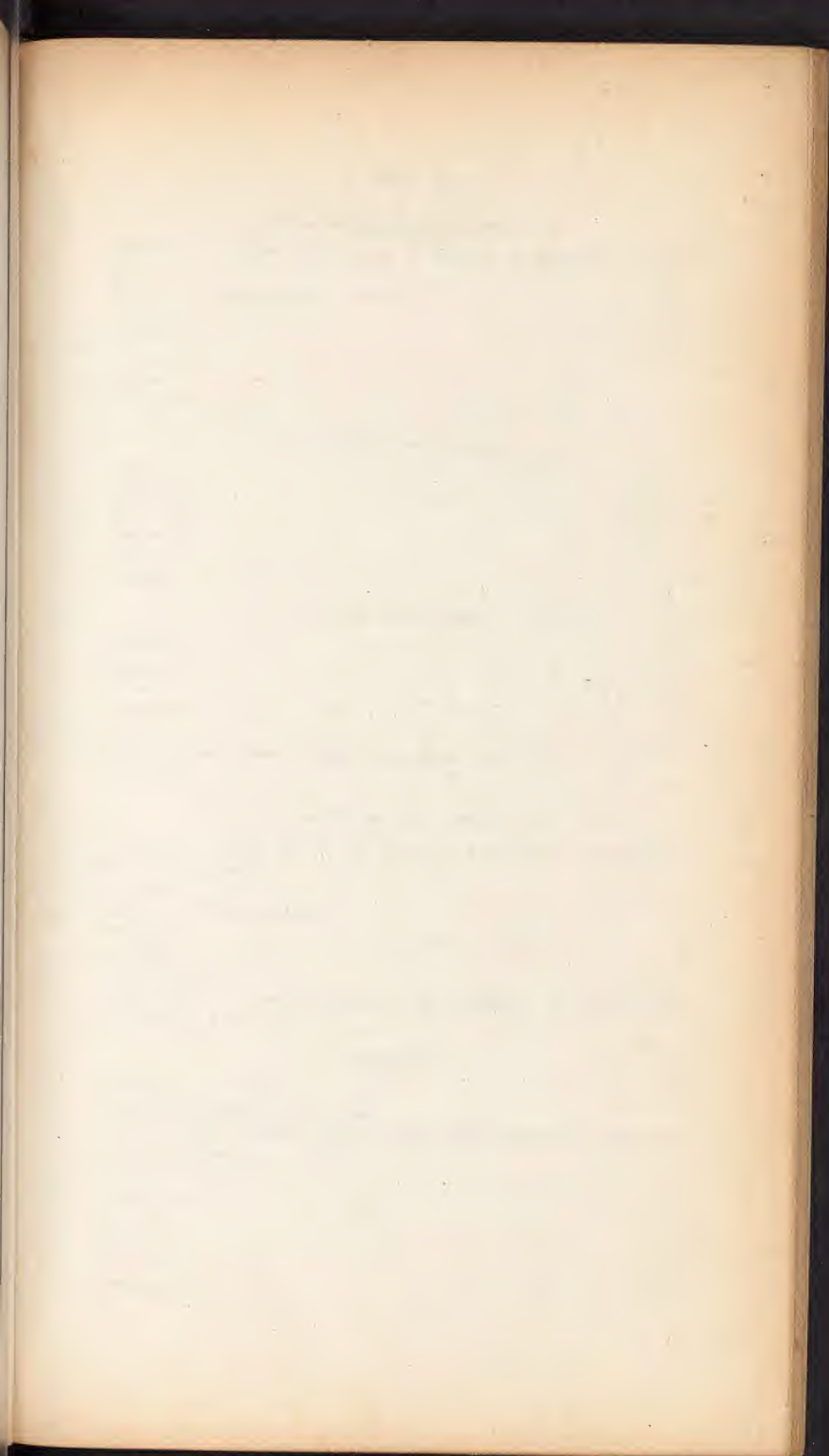
















INFLAMMATION OF THE CORNEA.

*Varieties.*—1. Acute. 2. Chronic. 3. Partial. 4. Complete. 5. Scrofulous.

*Causes.*—1. Constitutional. 2. Local.

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Effects.*

*Treatment.*

SUPPURATION OF THE CORNEA.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Effects.*

*Treatment.*

ULCERS OF THE CORNEA.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Effects.*

*Complications.*—Hernia corneæ, fistula corneæ, &c.

*Treatment.*

OPACITY OF THE CORNEA.

*Varieties.*—1. Arcus senilis. 2. Nebula. 3. Albugo, or leucoma. 4. Macula. 5. Congenital.

*Causes.*

*Symptoms.*—In each variety.

*Diagnosis.*

*Prognosis.*

*Effect on vision.*

*Treatment.*—1. General remedies. 2. Local remedies. 3. Cunier's operation. 4. Bigger's operations.

STAPHYLOMA.

*Definition.*

*Extent.*—1. Partial. 2. Complete.

*Shape.*—Varies. Hence we have the staphyloma hemisphericum, globosum, conicum, racemosum, &c.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Structure.*

*Treatment.*

CONICAL CORNEA.

*Definition.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

IV. INJURIES AND DISEASES OF THE SCLEROTICA.

WOUNDS.

*Varieties.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Effects.*  
*Treatment.*

SCLEROTITIS, OR INFLAMMATION OF THE SCLEROTICA.

*Varieties.*  
*Causes.*  
*Diagnosis.*  
*Prognosis.*  
*Results.*  
*Treatment.*

STAPHYLOMA SCLEROTICÆ.

*Definition.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

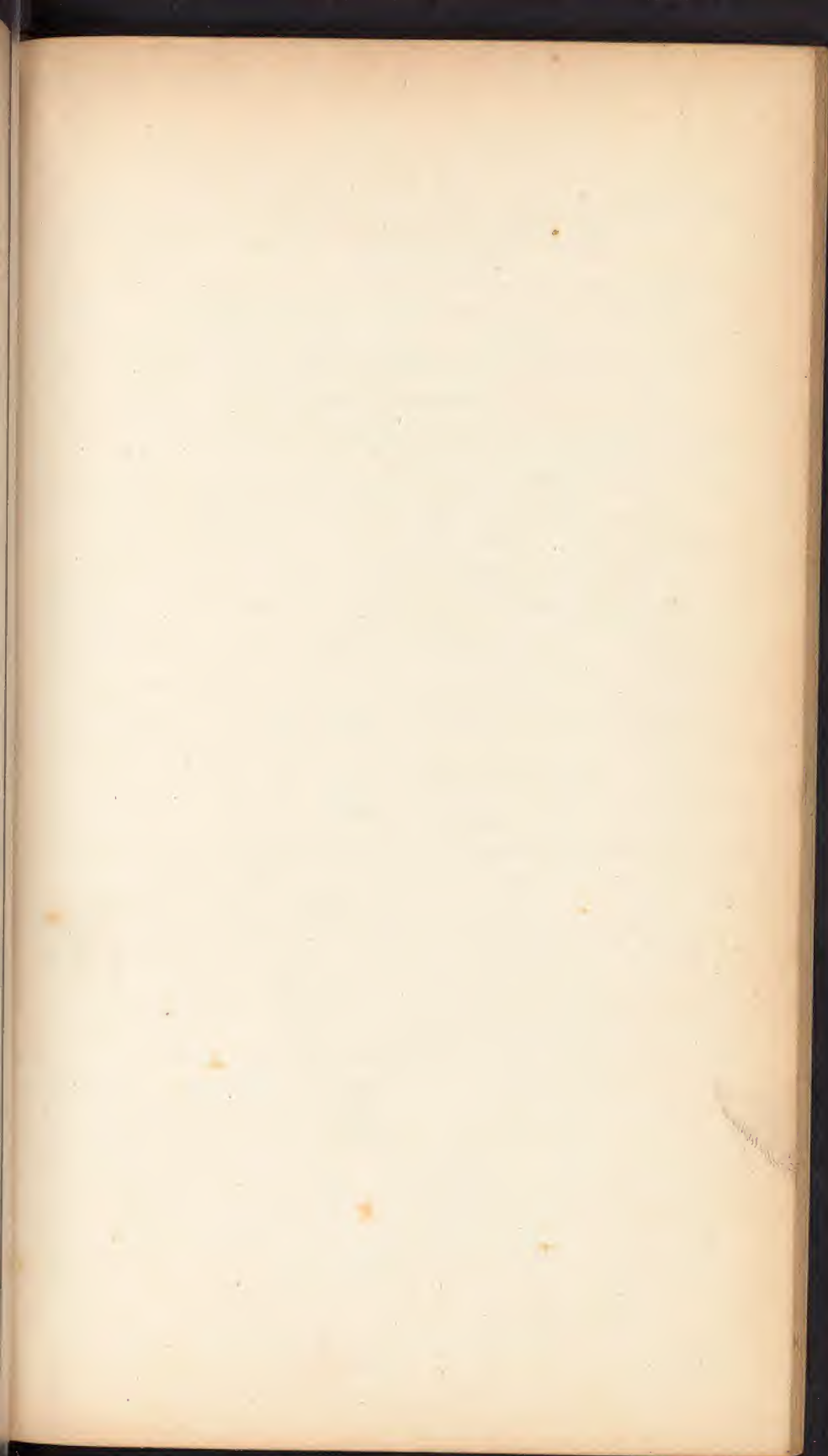
CYSTS AND TUMOURS OF THE SCLEROTICA.

*Varieties.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

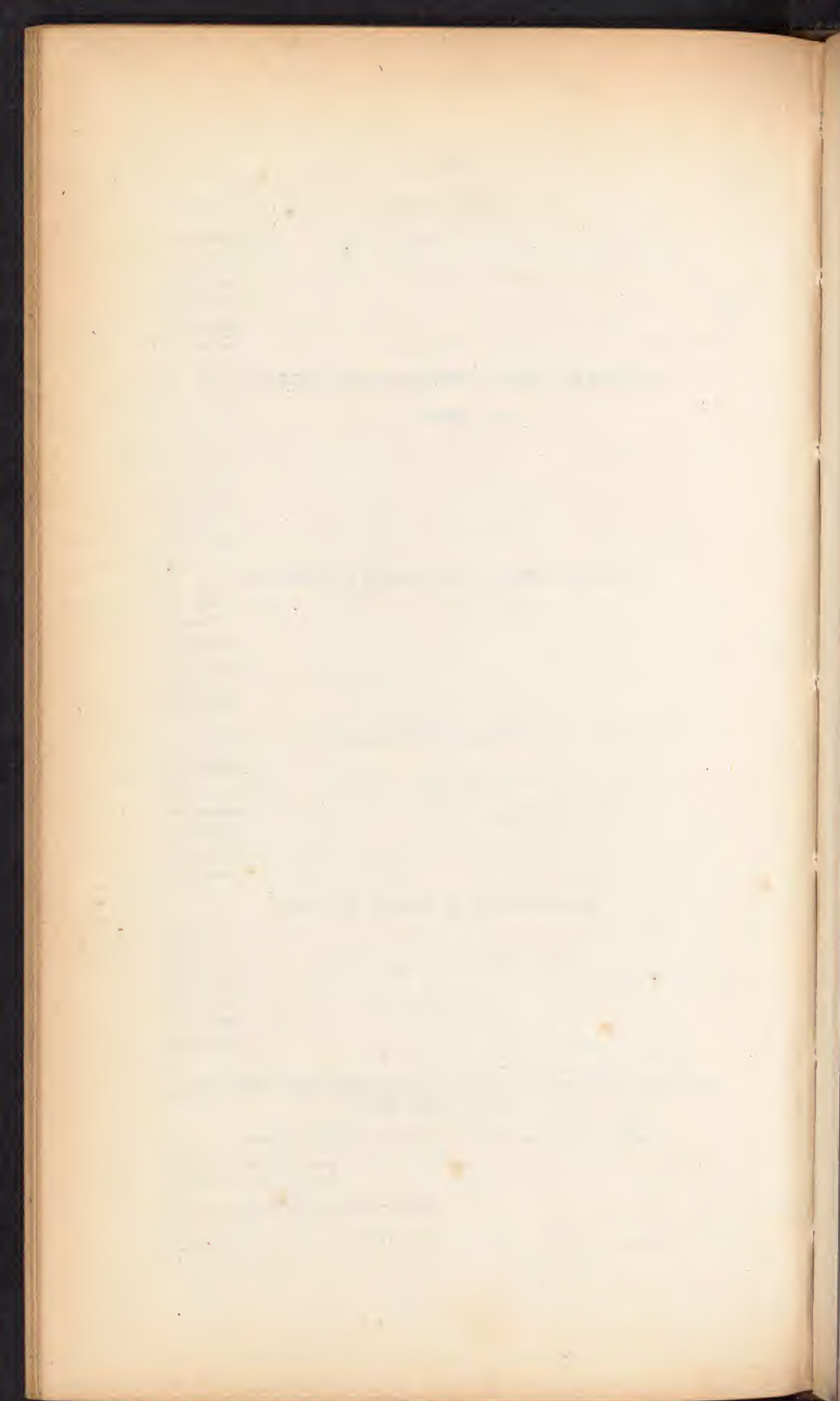
V. INJURIES AND DISEASES OF THE AQUEOUS MEMBRANE  
AND CHAMBERS.

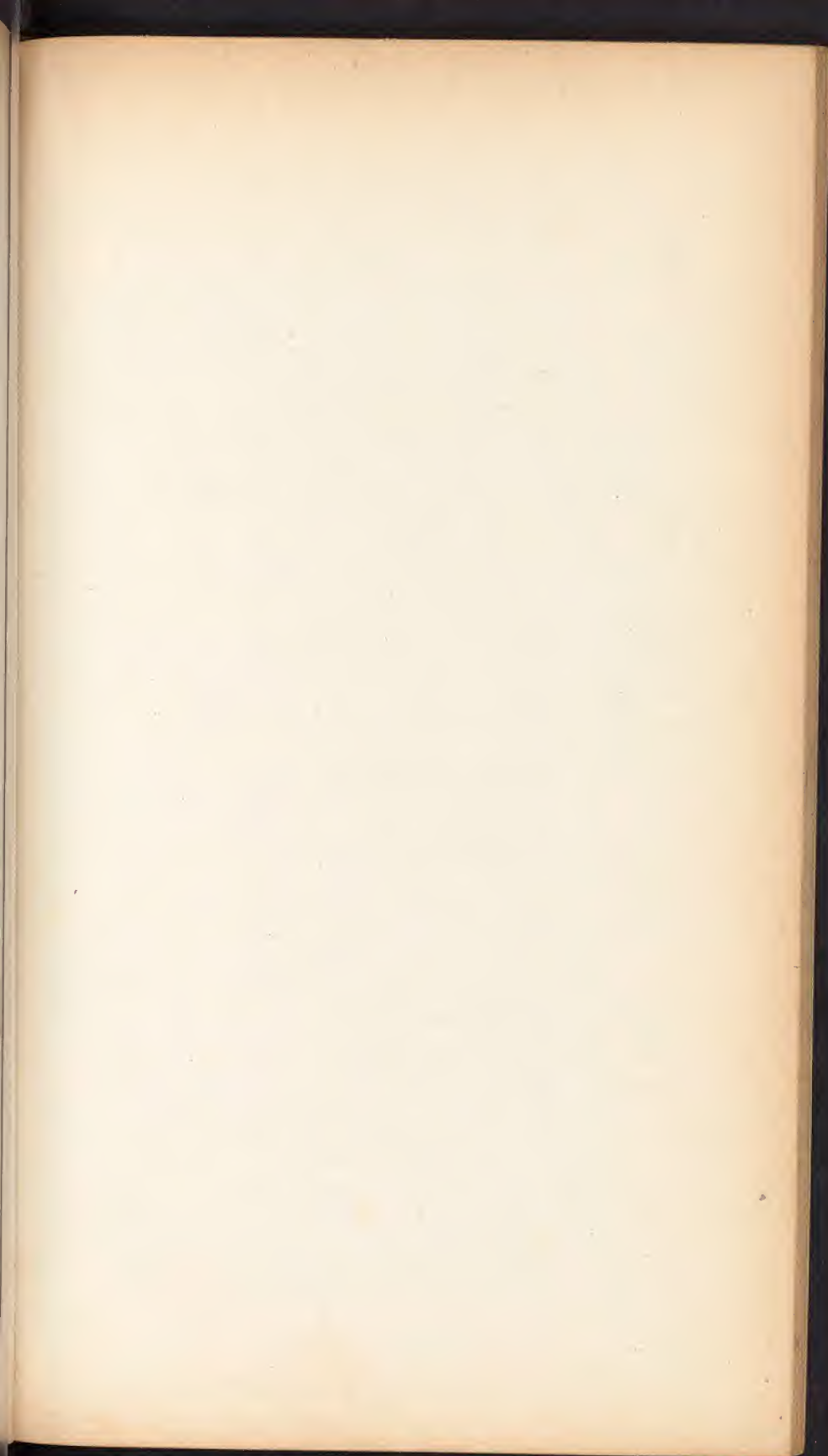
FOREIGN BODIES LODGED, IN THE ANTERIOR CHAMBER.

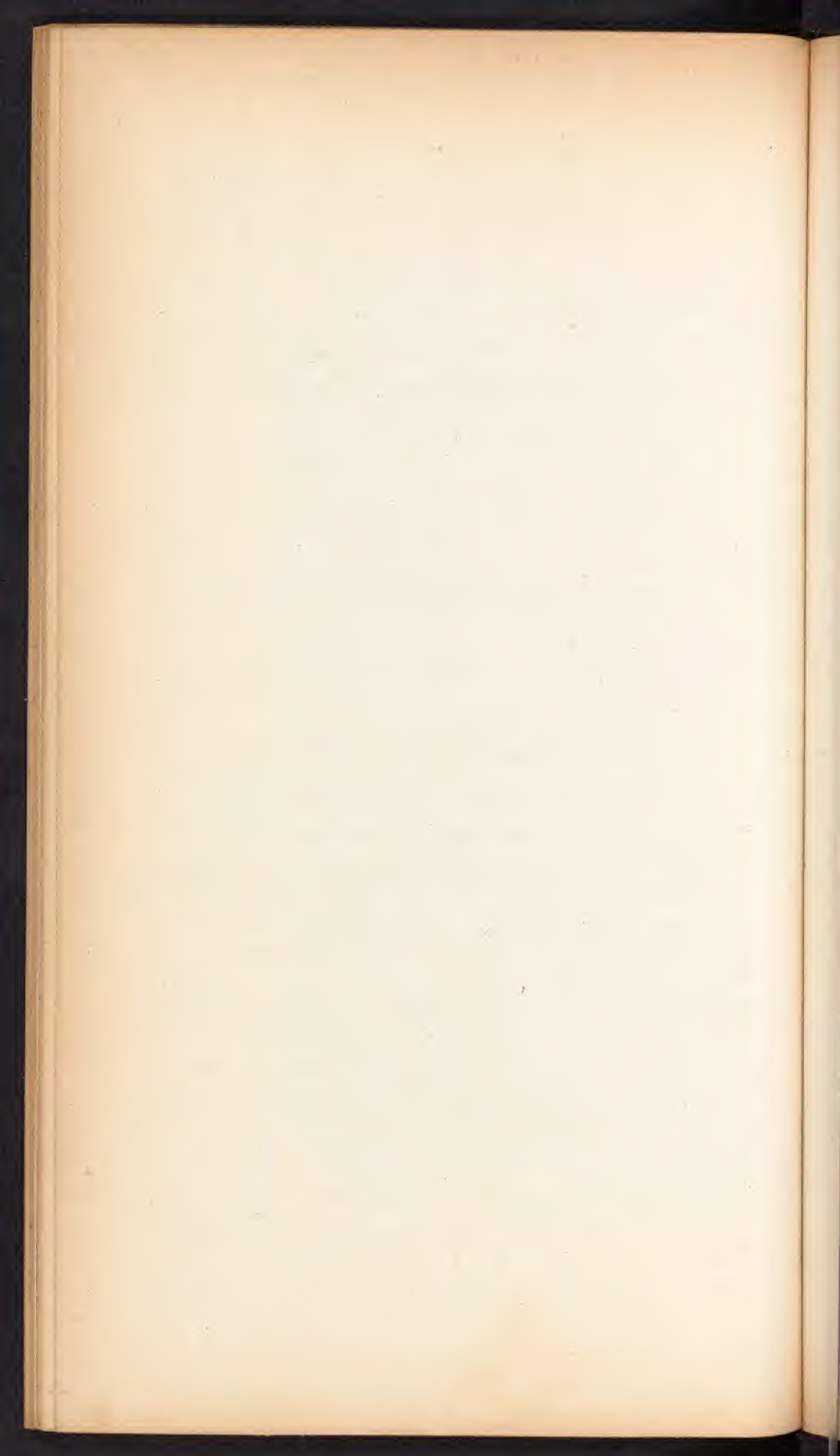
*Nature of these bodies.*  
*Manner of introduction.*  
*Symptoms produced by their presence.*  
*Prognosis.*  
*Treatment.*

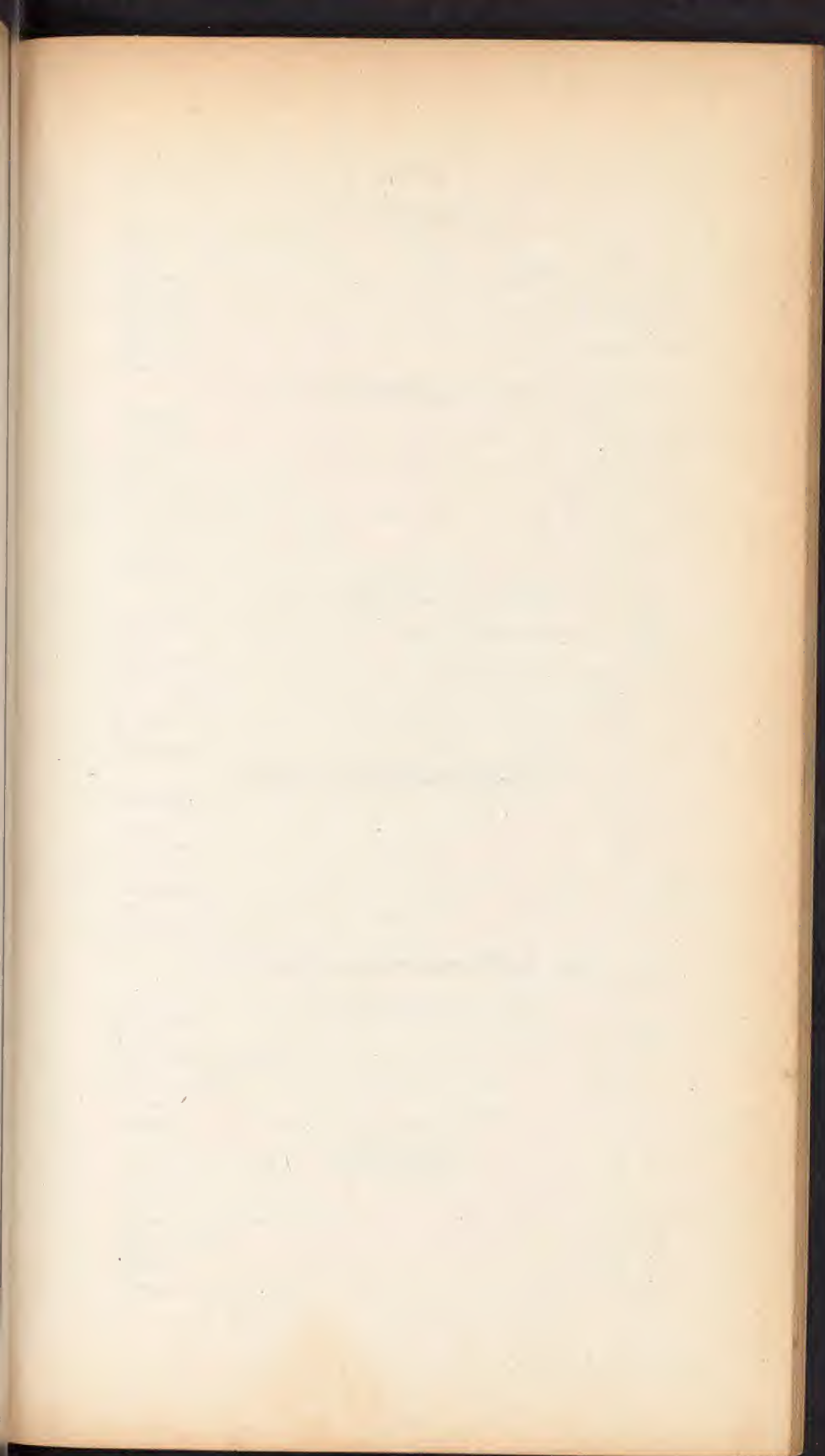




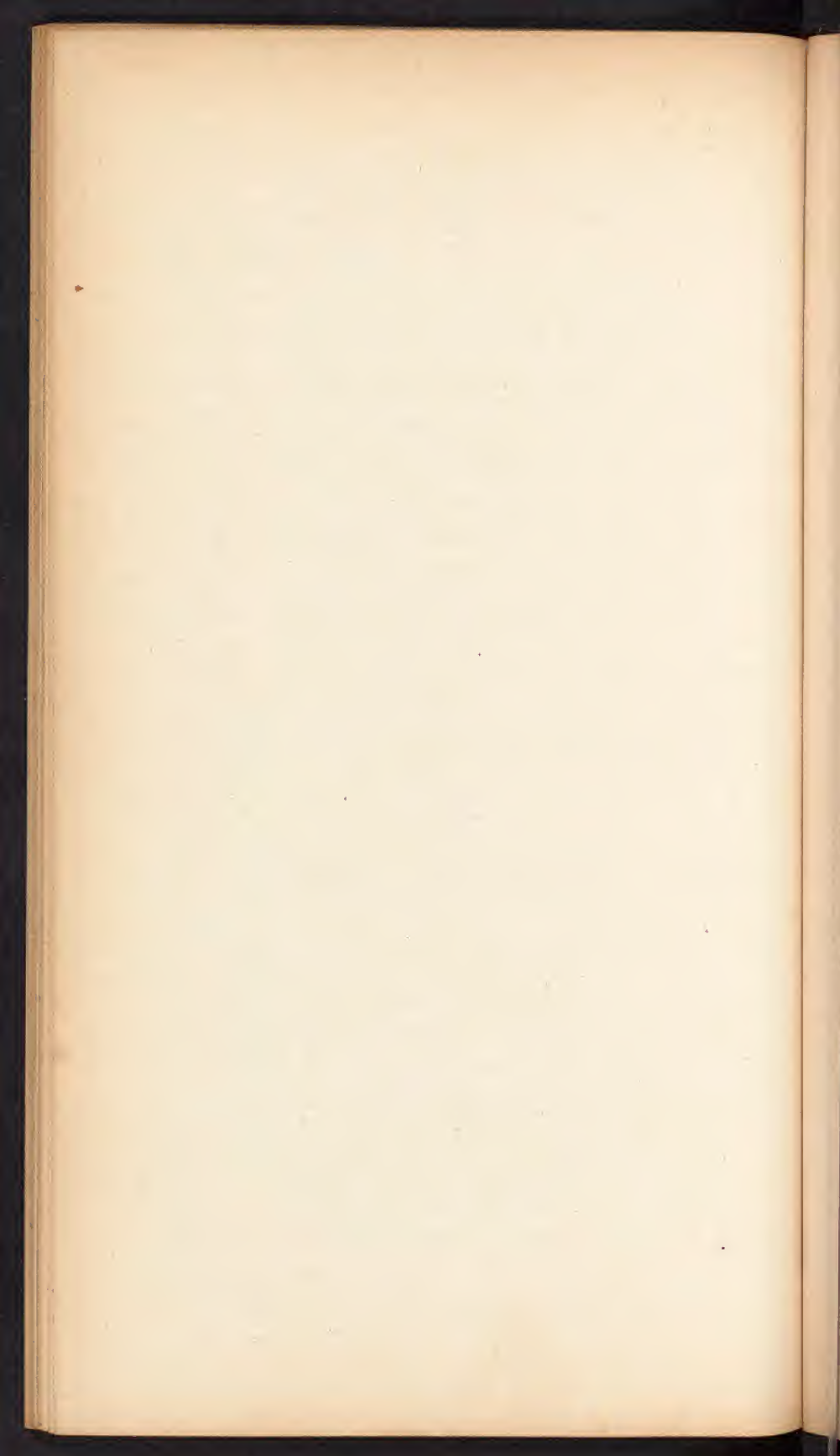












HÆMOPHTHALMUS.

*Definition.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Effect.*

*Treatment.*

AQUO-CAPSULITIS.

*Definition.*

*Varieties.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Results.*

*Treatment.*

HYPOPYON.

*Definition.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Results.*

*Treatment.*

DROPSY OF THE ANTERIOR CHAMBER.

*Definition.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Results.*

*Treatment.*

VI. INJURIES AND DISEASES OF THE IRIS.

IRIDEREMIA.

*Definition.*

*Causes.*

*Appearance of the eye.*

*Effect on vision.*

*Prognosis.*

*Treatment.*

COLOBOMA IRIDIS.

*Definition.*

*Causes.*

*Appearance of the eye.*

*Effect on vision.*

*Prognosis.*

*Treatment.*

CHANGE OF COLOR IN THE IRIS.

*Causes.*  
*Appearance of the eye.*  
*Effect on vision.*  
*Prognosis.*  
*Treatment.*

PROCIDENTIA, OR STAPHYLOMA IRIDIS.

*Definition.*  
*Causes.*  
*Symptoms.*  
*Effect on vision.*  
*Prognosis.*  
*Treatment.*

SYNECHIA.

*Definition.*  
*Varieties.*—Anterior and posterior.  
*Causes.*  
*Symptoms.*  
*Prognosis.*  
*Treatment.*

FUNGOUS EXCRESCENCES AND TUMOURS OF THE IRIS.

*Varieties.*  
*Causes.*  
*Symptoms.*  
*Prognosis.*  
*Treatment.*

MYOSIS.

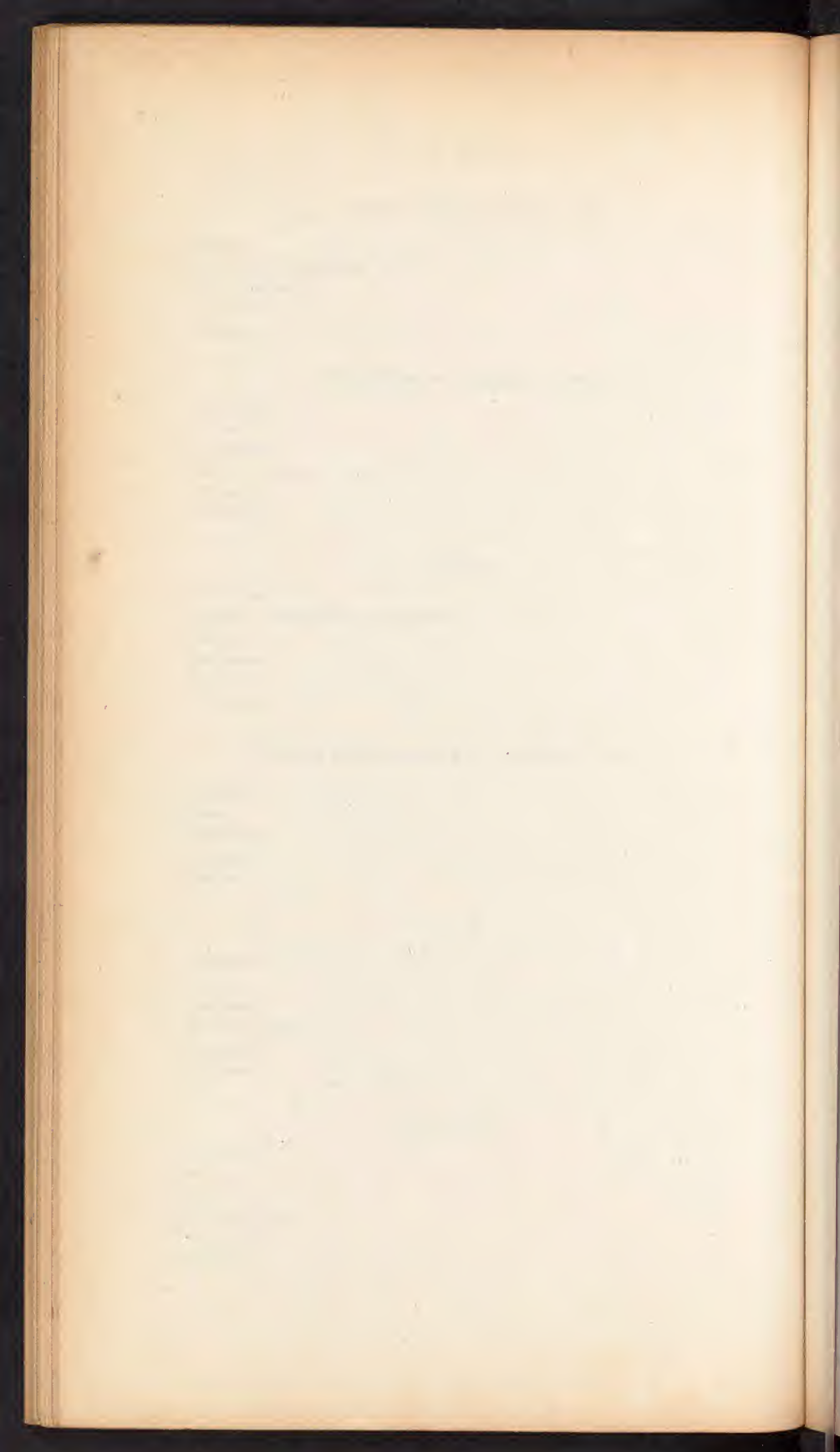
*Definition.*  
*Causes.*  
*Symptoms.*  
*Effect on vision.*  
*Prognosis.*  
*Treatment.*

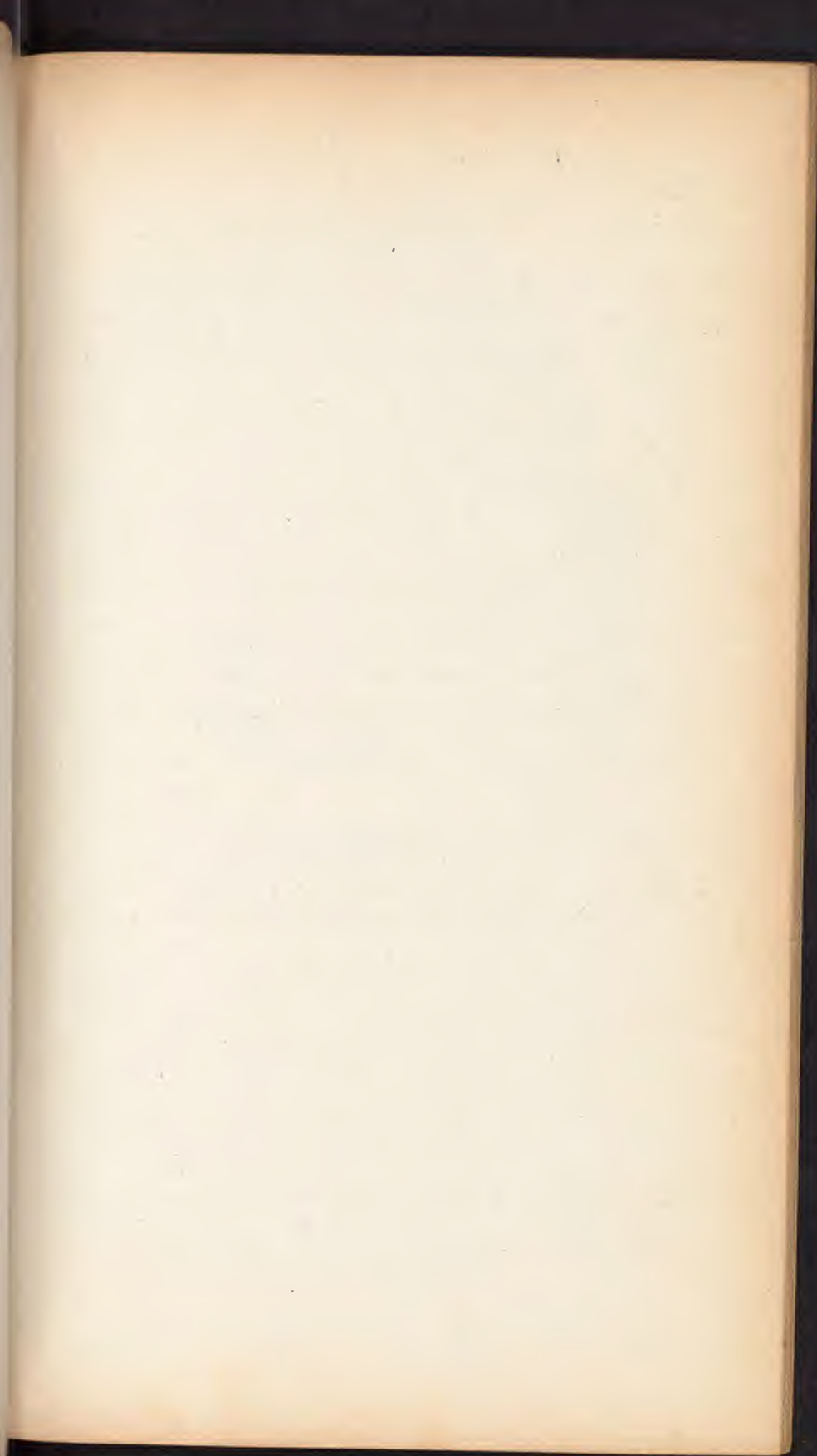
MYDRIASIS.

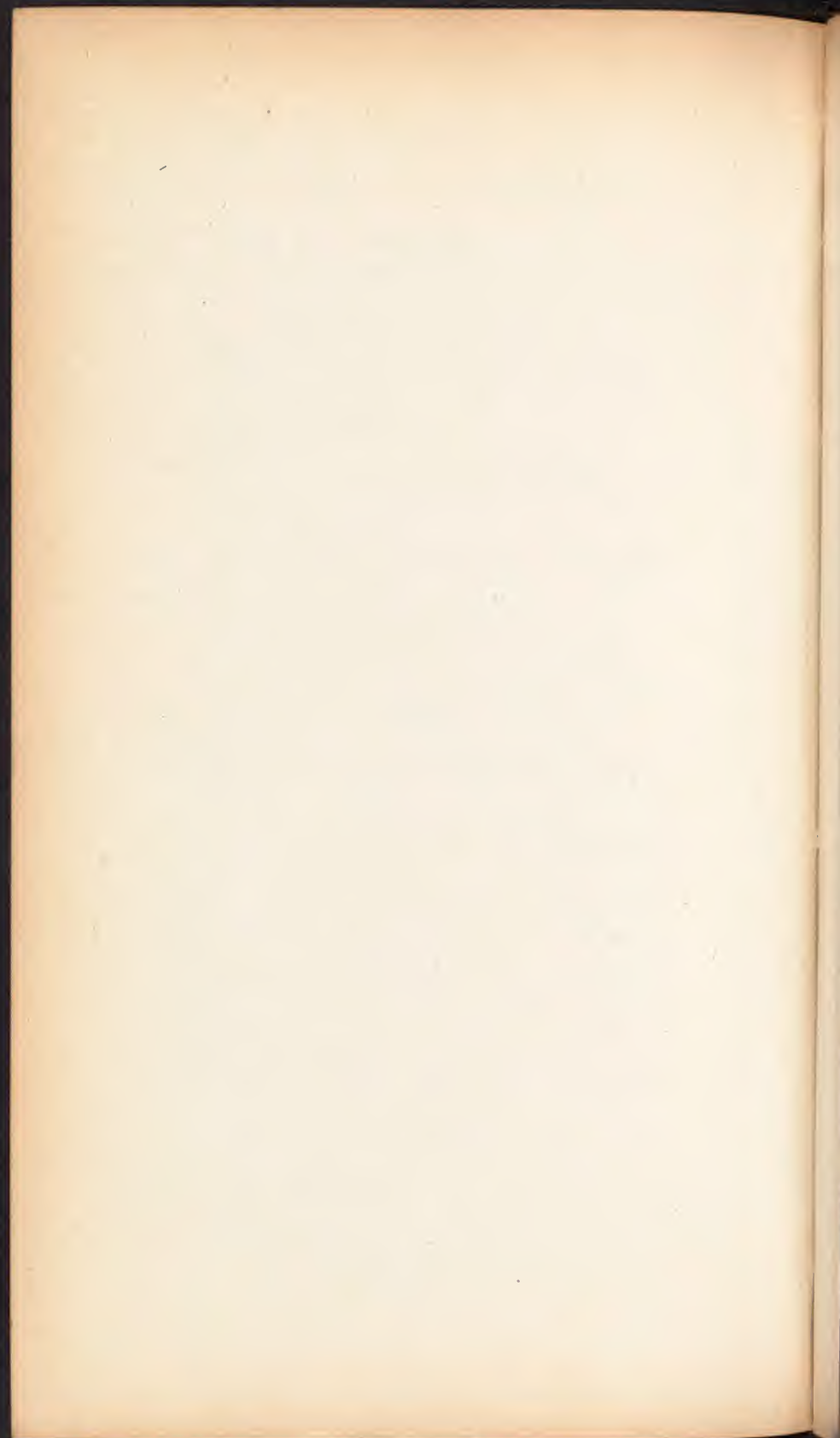
*Definition.*  
*Causes.*  
*Symptoms.*  
*Effect on vision.*  
*Prognosis.*  
*Treatment.*

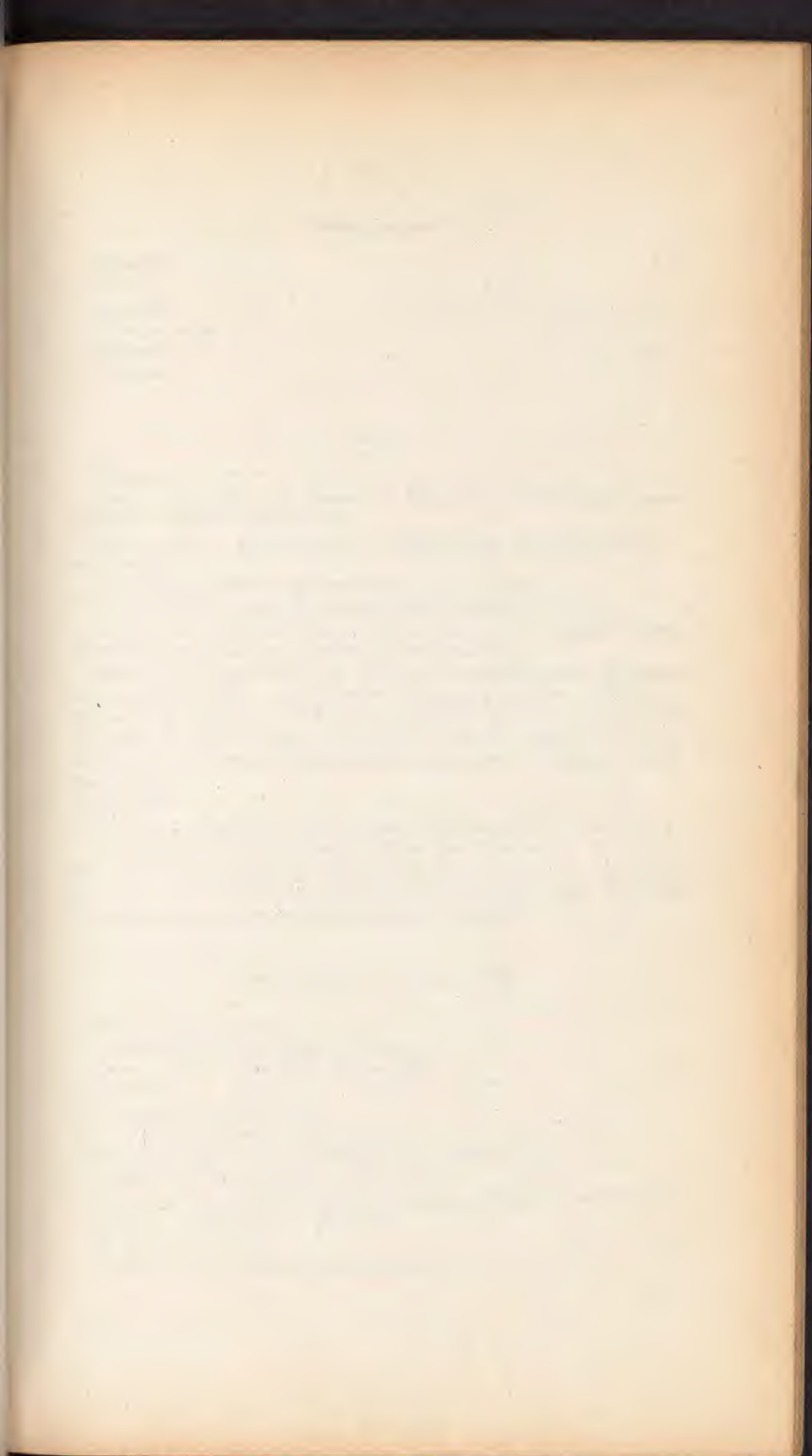




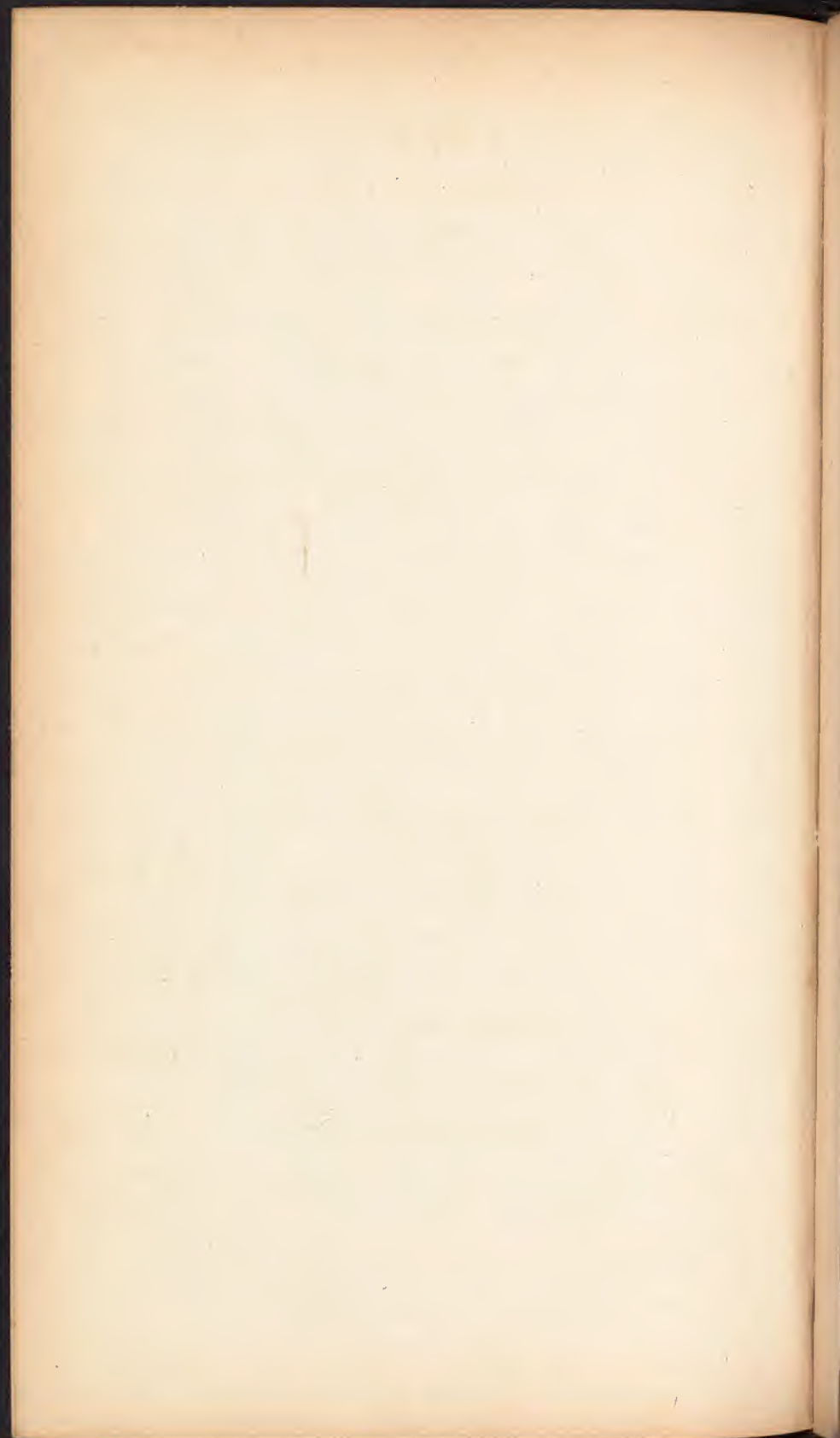












TREMULOUS IRIS.

*Definition.*

*Causes.*

*Symptoms.*

*Effect on vision.*

*Prognosis.*

*Treatment.*

IRITIS.

*Definition.*

*Varieties.*—1. Acute. 2. Chronic. 3. Idiopathic. 4. Sympathetic, which includes the syphilitic, arthritic, &c.

*Causes.*—1st, or constitutional, as syphilis, gout, rheumatism, scrofula, cold, wet, &c.

2d, or local.—Direct injuries, over exertion of the eye, &c.

*Age most liable.*—Adult and old age. Rarely occurs before puberty.

*Symptoms.*—1. Constitutional. 2. Local. These are of course modified by the extent, duration, and intensity of the inflammation.

*Effects of this inflammation.*—1. Effusion of coagulable lymph. 2. Change in the color of the iris. 3. Displacement of the iris. 4. Hypopion. 5. Effusion of blood in the chambers. 6. Adhesions between the iris and cornea, or capsule of the lens. 7. Loss of motion in the iris. 8. Closure of the pupil. 9. Atrophy of the globe. 10. Opacity and thinning of the cornea. 11. Partial or entire loss of vision.

*Diagnosis.*

*Prognosis.*—Depends on circumstances; for the most part it is unfavorable.

*Treatment.*—Three indications—1. Arrest the inflammation. 2. Prevent the further effusion of lymph, and promote the absorption of that already secreted. 3. Prevent the contraction and obliteration of the pupil. Remedies to be employed for the accomplishment of these indications.

OPERATIONS FOR ARTIFICIAL PUPIL.

*Object of these operations.*

*States of the eye requiring the operation.*

*Proper condition of the eye for an operation.*

*Prognosis.*

*Position of the artificial pupil.*

*Should we operate when one eye is sound!*

*Should we operate on BOTH when both eyes are diseased.*

*Preparation of the patient for an operation.*

*Various operations described.*—Three principal methods at present in vogue.

1. Incision. 2. Excision. 3. Separation.

*Relative merits of each.*

*Formation of an artificial pupil in the sclerotica.*

VII. DISEASES OF THE CHOROID COAT.

CHOROIDITIS.

*Definition.*

*Varieties.*—Acute and chronic.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

DEFICIENCY OF PIGMENT.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

VIII. DISEASES OF THE RETINA.

RETINITIS.

*Definition.*

*Varieties.*—Acute and chronic.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

AMAUROSIS.

*Definition.*

*Synonymes.*—Gutta serena, suffusion.

*Varieties.*—1. Idiopathic. 2. Sympathetic. 3. Symptomatic. 4. Incipient, or recent. 5. Inveterate, or confirmed. 6. Partial. 7. Complete. 8. Organic. 9. Functional. 10. Continued. 11. Intermittent. 12. Periodical. 13. Local, or nervous. 14. Complicated.

*Causes.*—Several classes—

1. Those operating immediately on the nervous apparatus of the eye.
2. Those operating indirectly through the medium of some other organ, or by sympathy.
3. Those operating through the medium of the sensorium.
4. Congenital causes.

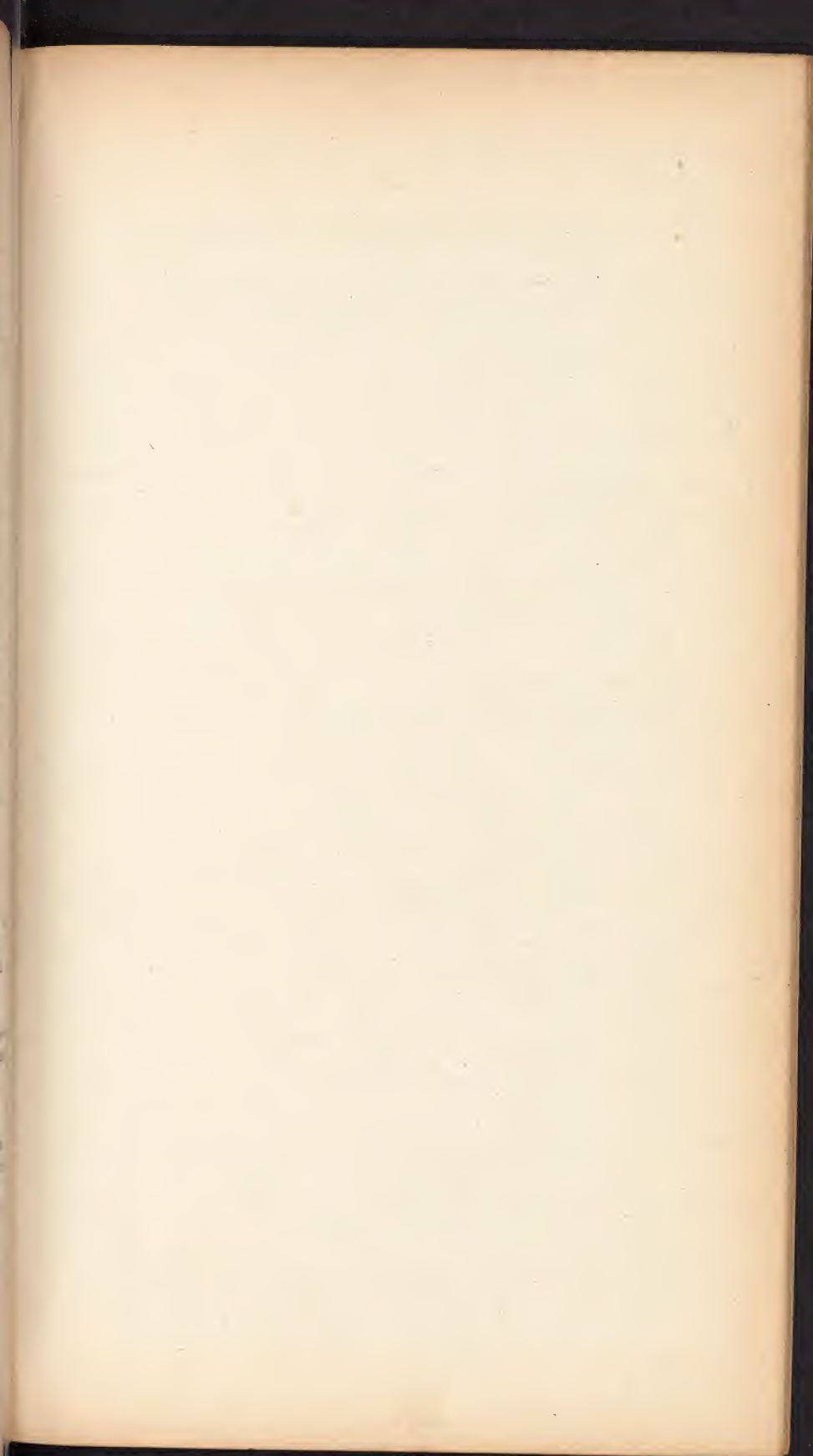
*Symptoms.*—Depend on the stage at which we examine the case.

*Diagnosis.*—May be confounded with cataract, glaucoma, muscæ, &c. Refer to the catoptric examination.

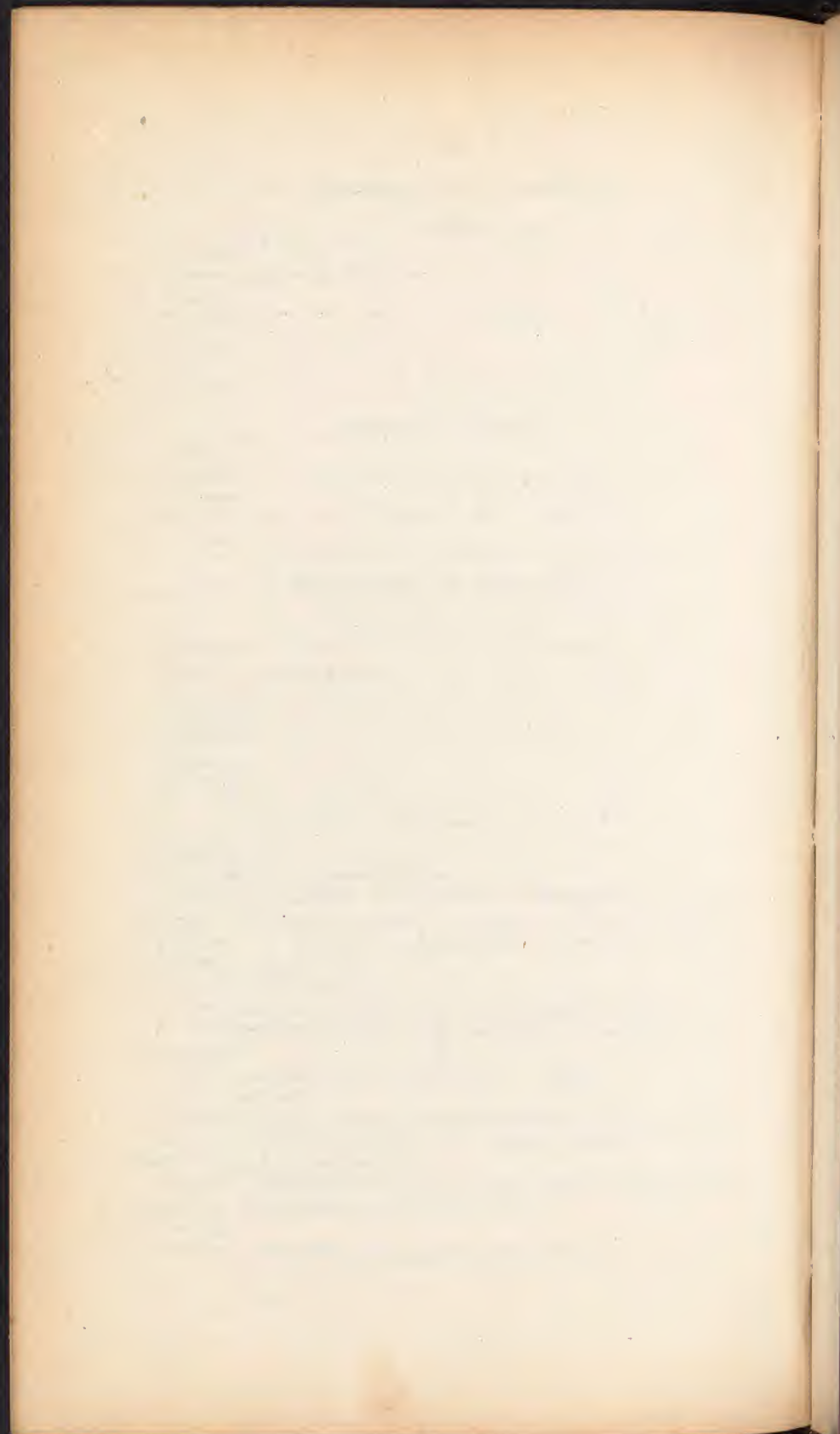
*Prognosis.*—Depends on the *cause*, *duration*, and *degree* of the attack. Influence on the sound eye when but one is affected.

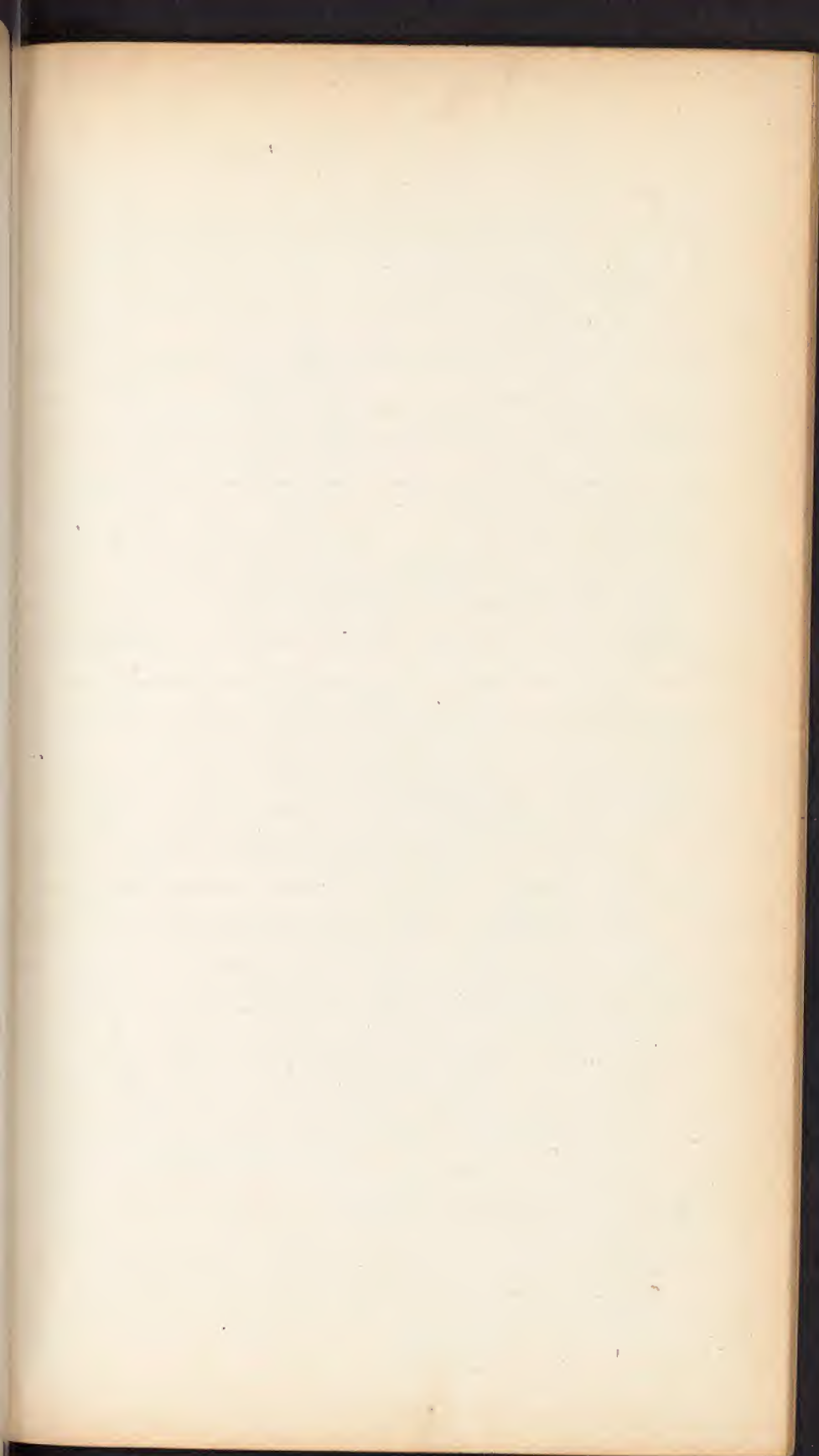
*Pathology.*

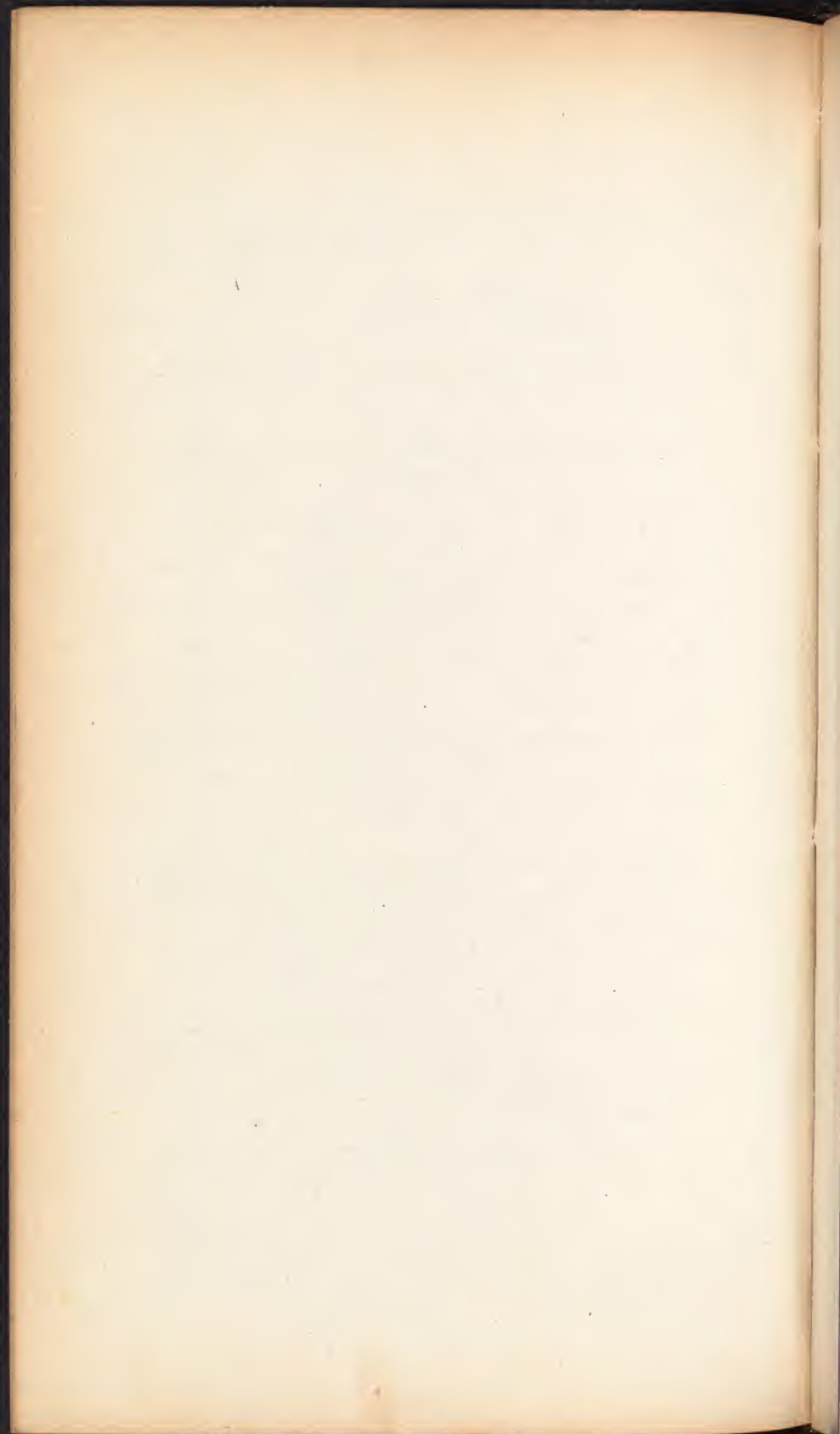
*Treatment.*—Modified to suit the peculiarities of the case.

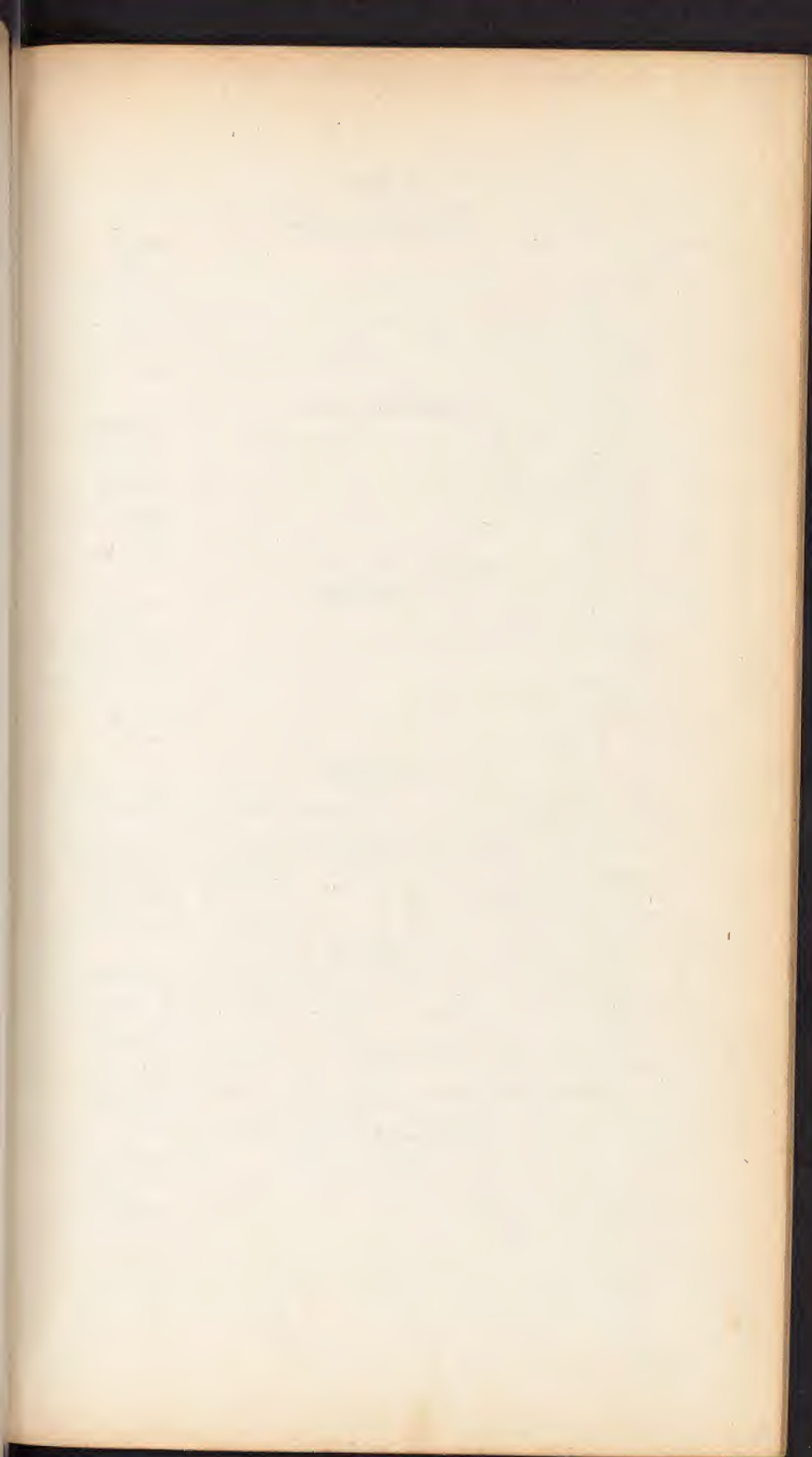




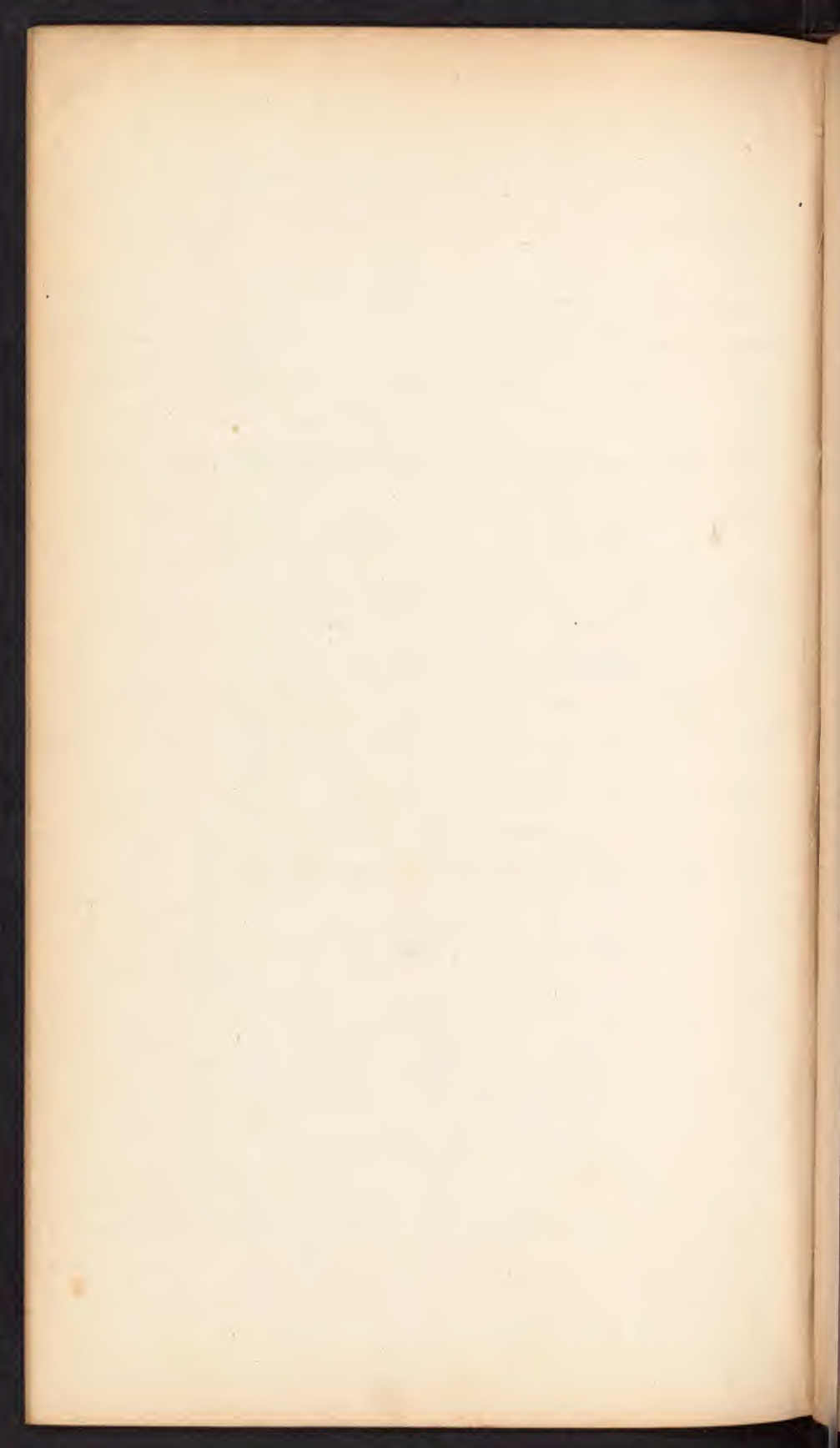












## WEAKNESS OF SIGHT.

Definition.  
Causes.  
Symptoms.  
Diagnosis.  
Prognosis.  
Pathology.  
Treatment.

## MUSCÆ VOLITANTES.

Definition.  
Causes.  
Symptoms.  
Diagnosis.  
Prognosis.  
Pathology.  
Treatment.

## HEMERALOPIA

Definition.  
Causes.  
Symptoms.  
Diagnosis.  
Prognosis.  
Pathology.  
Treatment.

## NYCTALOPIA.

Definition.  
Causes.  
Symptoms.  
Diagnosis.  
Prognosis.  
Pathology.  
Treatment.

## HEMIOPIA.

Definition.  
Causes.  
Symptoms.  
Diagnosis.  
Prognosis.  
Pathology.  
Treatment.

## NEAR-SIGHT

Definition.  
Causes.  
Symptoms.  
Diagnosis.  
Prognosis.  
Pathology.  
Treatment.

## FAR-SIGHT.

*Definition.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Pathology.*  
*Treatment.*

## PHOTOPSIA.

*Definition.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Pathology.*  
*Treatment.*

## CHRUPTIA, OR COLORED VISION.

*Definition.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Pathology.*  
*Treatment.*

## IX. DISEASES OF THE LENS AND CAPSULE.

## CATARACT.

*Definition.*—Partial or complete opacity of the crystalline lens, of its capsule, of both conjointly, or of the liquor Morgagni.

*Varieties.*—Lenticular, capsular, capsulo-lenticular, and Morgagnian; true and false; radiated and aborescent; hard, soft, and fluid, and cataracts of various colours; congenital and acquired.

*Age most liable.*

*Causes.*

*Symptoms.*—Impaired vision, opacity in or behind the pupil, &c. &c.

*Diagnosis.*—May be confounded with amaurosis, glaucoma, weakened sight, deposits of lymph, &c. Use the catoptric test to ascertain the true character of the case.

*Prognosis.*—Depends on the complication of the case, its duration, &c.

*Progress of the defect.*

*Question of operating when but one eye is affected.*

*Treatment.*—Nothing short of an operation will cure the complaint. Several operations have been devised, viz.: 1. Extraction. 2. Depression, or couching. 3. Reclination. 4. Solution or absorption. (Anterior and posterior operation.)

*Appreciation of these different operations.*

*Description of each, and the instruments required for its performance.*

*Preparation of the patient.*

*Season most favorable for operating.*

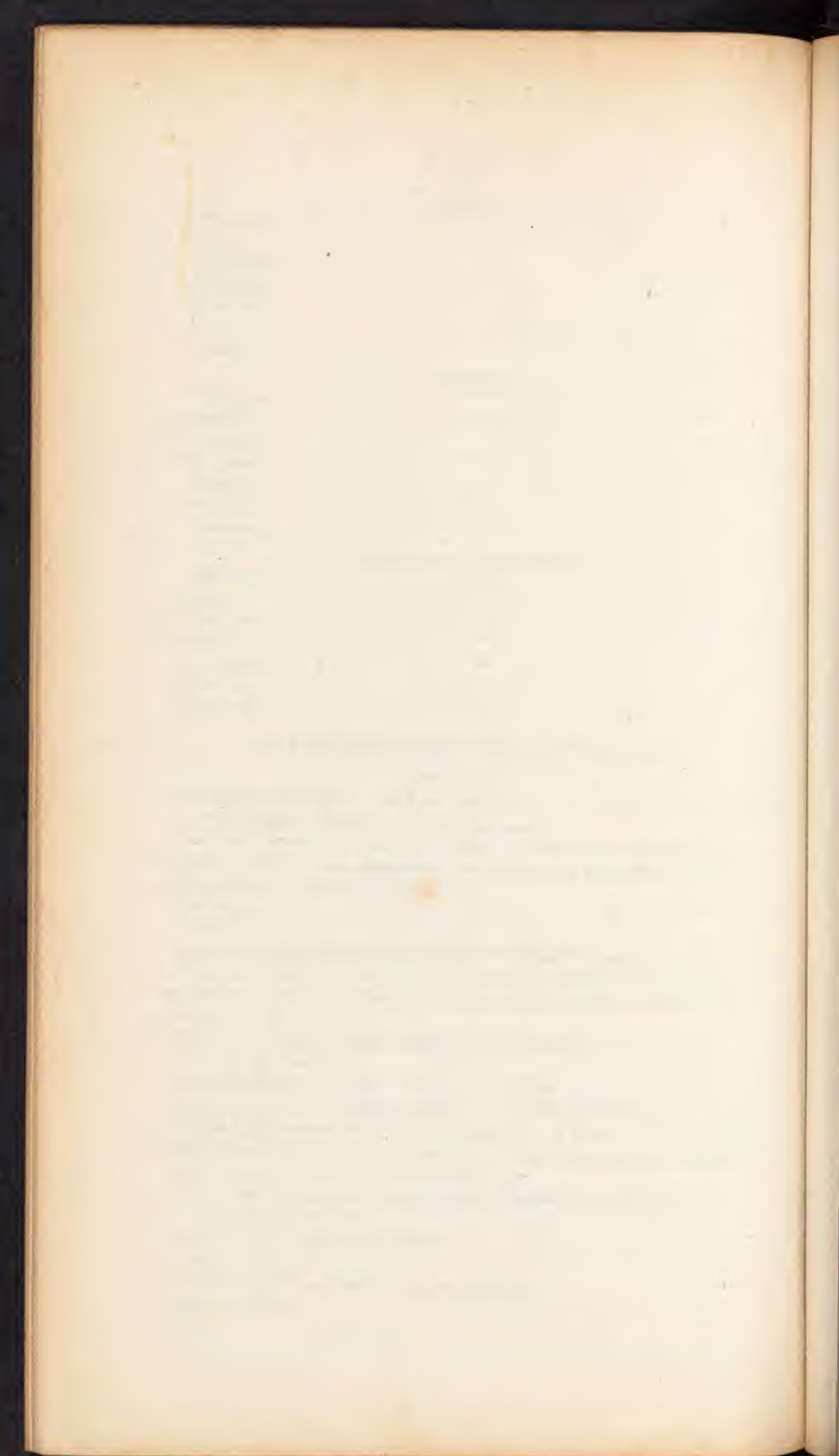
*After treatment.*

*Condition of the eye when the operation succeeds.*

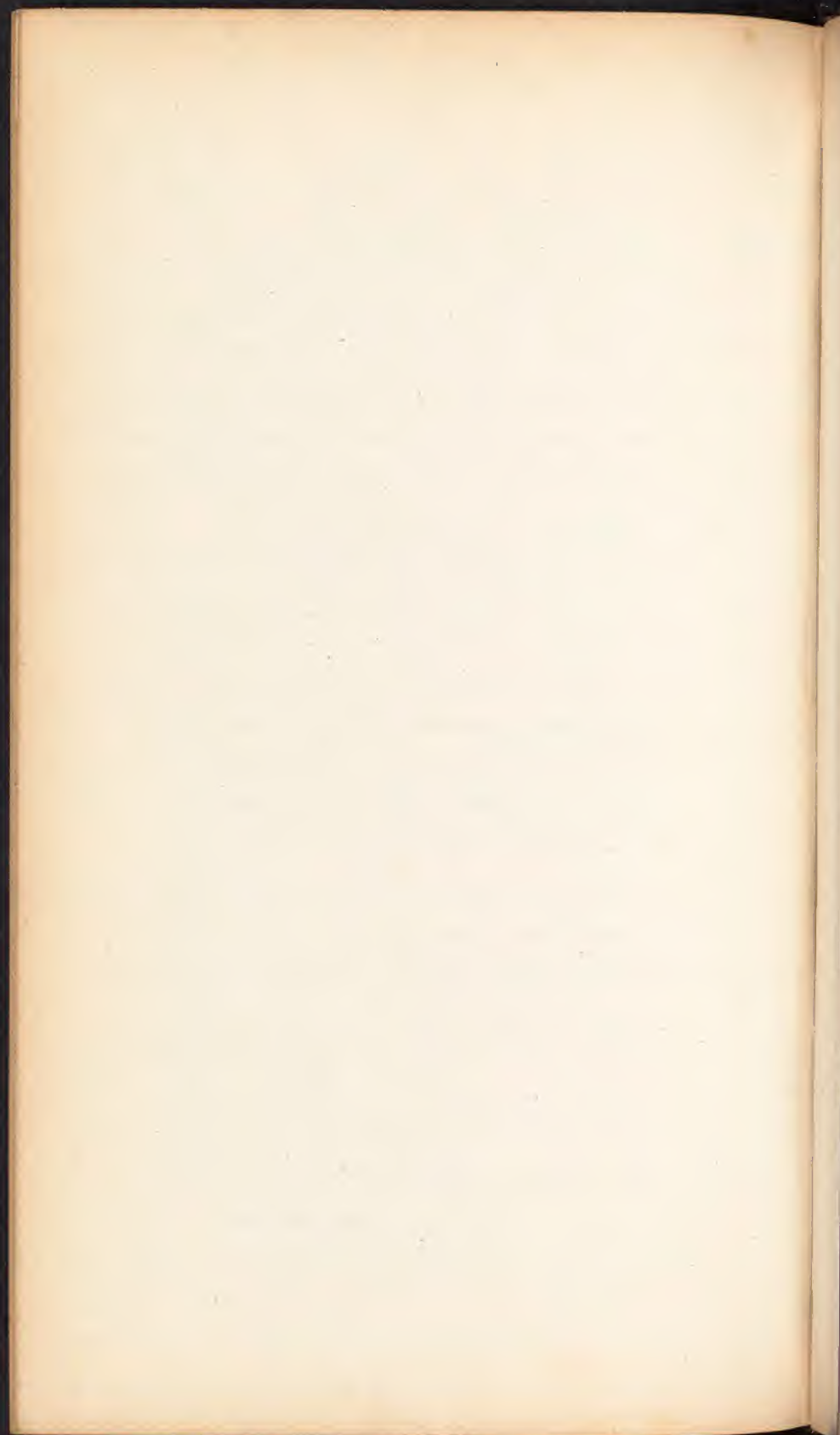
*Cataract glasses.*

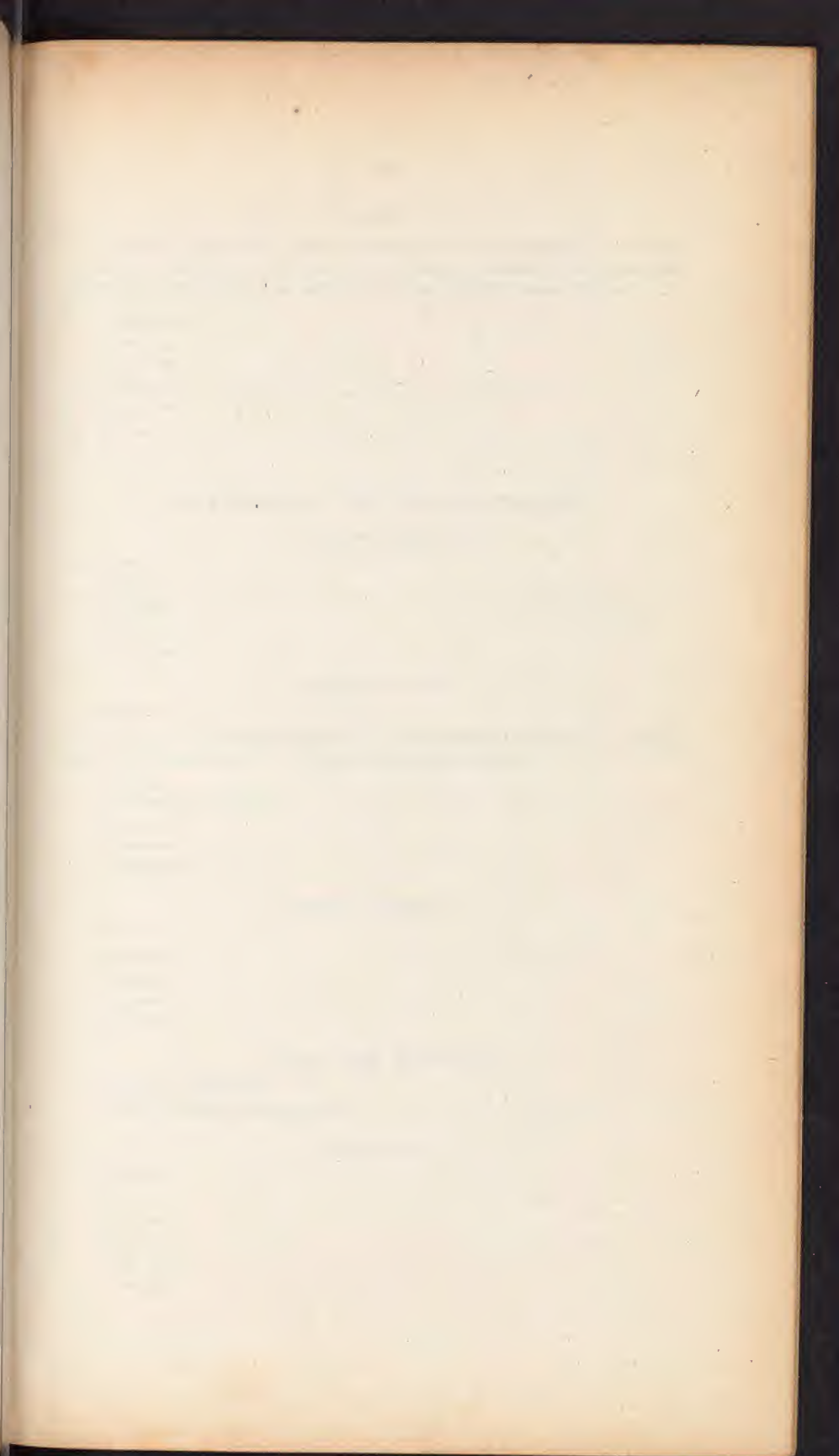




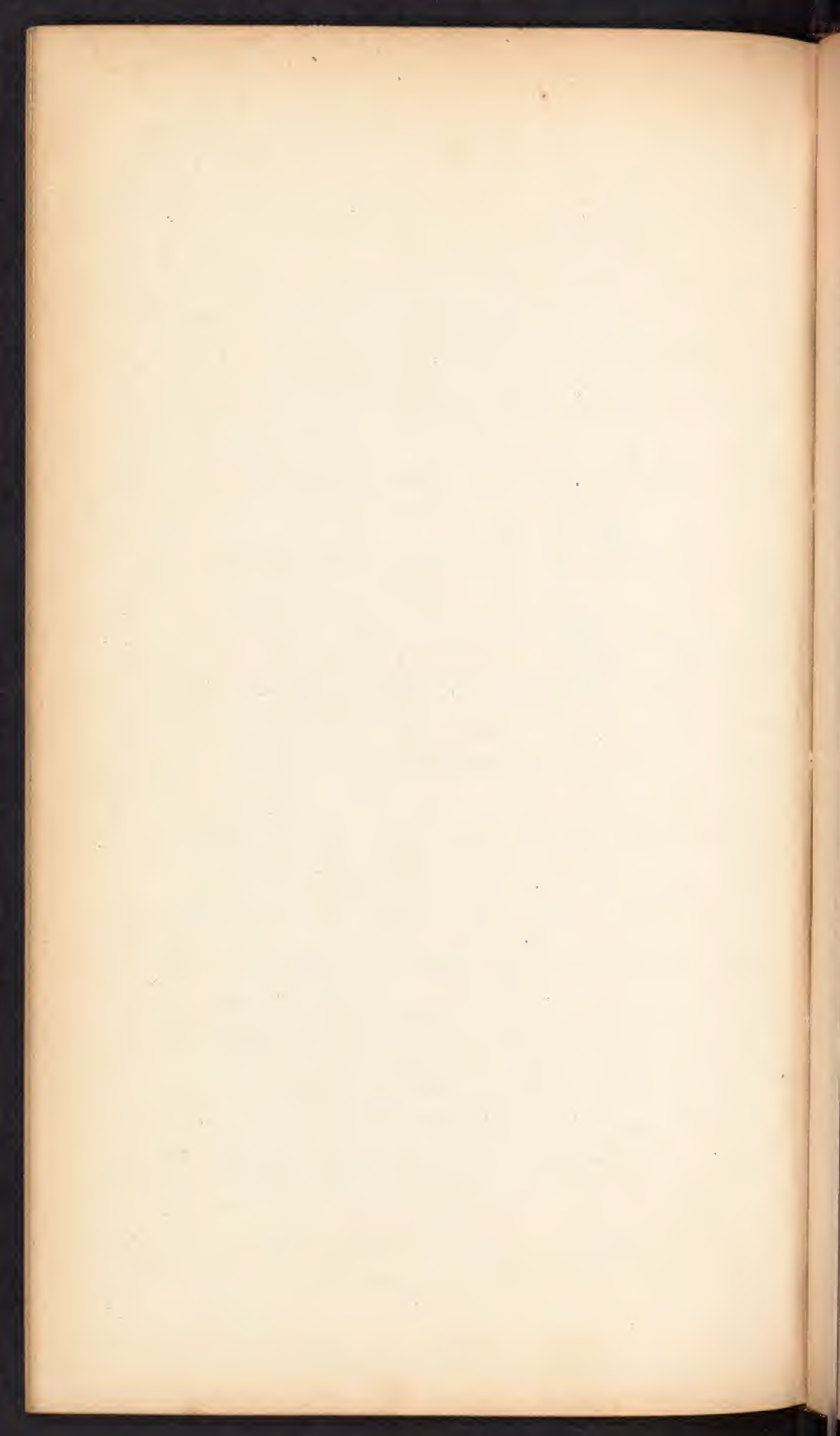












GLAUCOMA.

Although this affection, strictly speaking, cannot be considered an affection of the lens in every case, yet as glaucoma is often confounded with cataract, and the lens is often involved, it may be as well to speak of it under this head.

*Definition.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Pathology.*

*Treatment.*

X. DISEASES OF THE GLOBE OF THE EYE.

INFLAMMATION.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

HYDROPTHALMIA.

*Definition.*

*Varieties.*—1. Dropsy of the anterior and posterior chambers. 2. Dropsy of the vitreous humour. 3. General dropsy of the eye-ball.

*Causes.*

*Symptoms in each form.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

ATROPHY OF THE BALL.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

COLLAPSE FROM SUPPURATION.

*Character of the defect.*

*Mode of relieving the deformity.*

EXOPHTHALMIA.

*Definition.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

## XI. AFFECTIONS OF THE LACHRYMAL ORGANS.

### INFLAMMATION OF THE LACHRYMAL GLANDS.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

### ENLARGEMENT AND INDURATION OF THE LACHRYMAL GLAND.

*Causes.*

*Symptoms.*

*Prognosis.*

*Diagnosis.*

*Treatment.*

### EPIPHORA, OR EXCESSIVE SECRETION OF THE TEARS.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

### STILLICIDIUM LACHRYMARUM.

*Definition.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

## XII. DISEASES OF THE CARUNCULA LACHRYMALIS.

### ECANTHIS.

*Definition.*

*Varieties.*—Innocent and malignant.

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

### TUMOURS OF VARIOUS KINDS.

## XIII. DISEASES OF THE LACHRYMAL SAC AND DUCT.

### INFLAMMATION.

*Causes.*

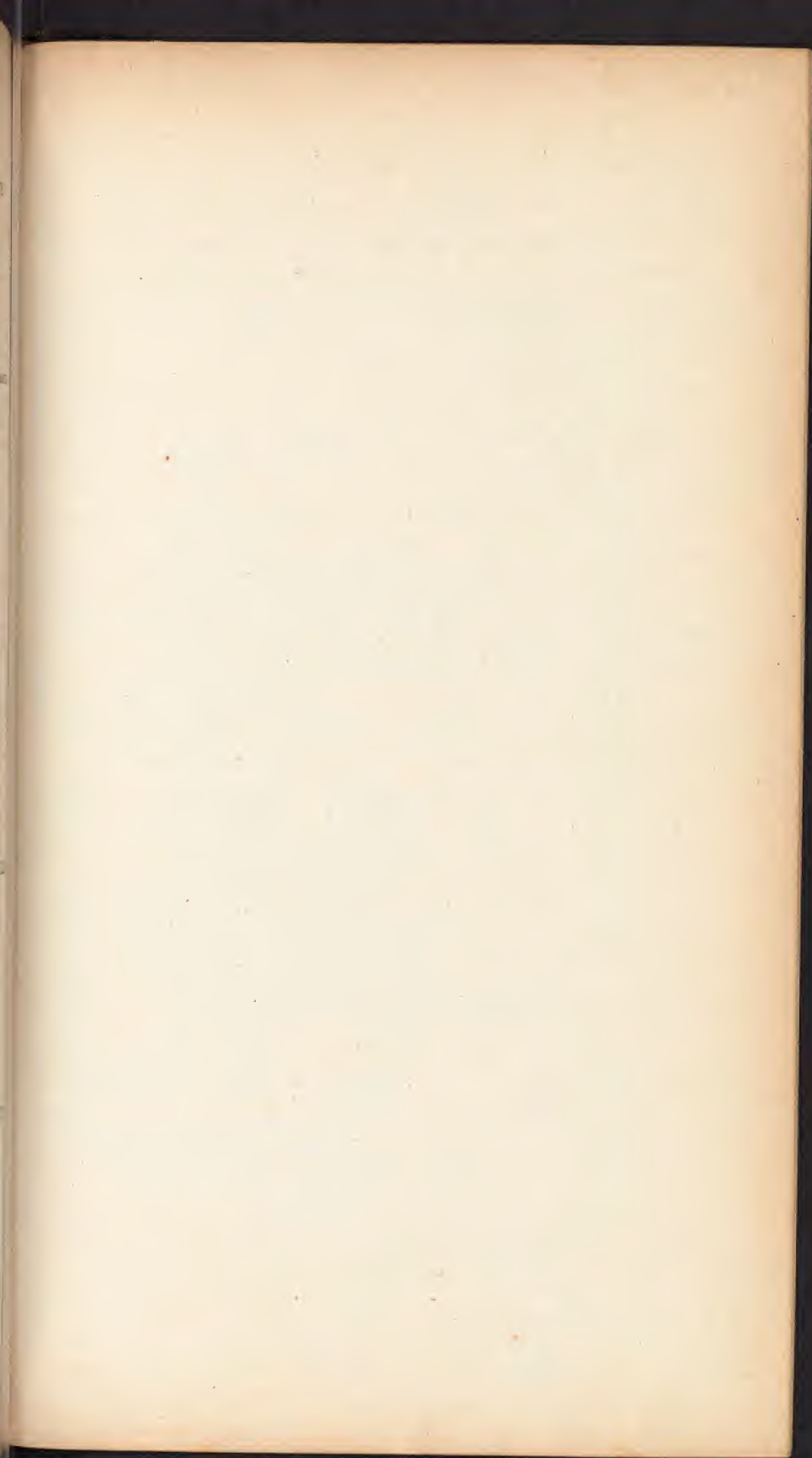
*Varieties.*—Acute and chronic.

*Symptoms.*

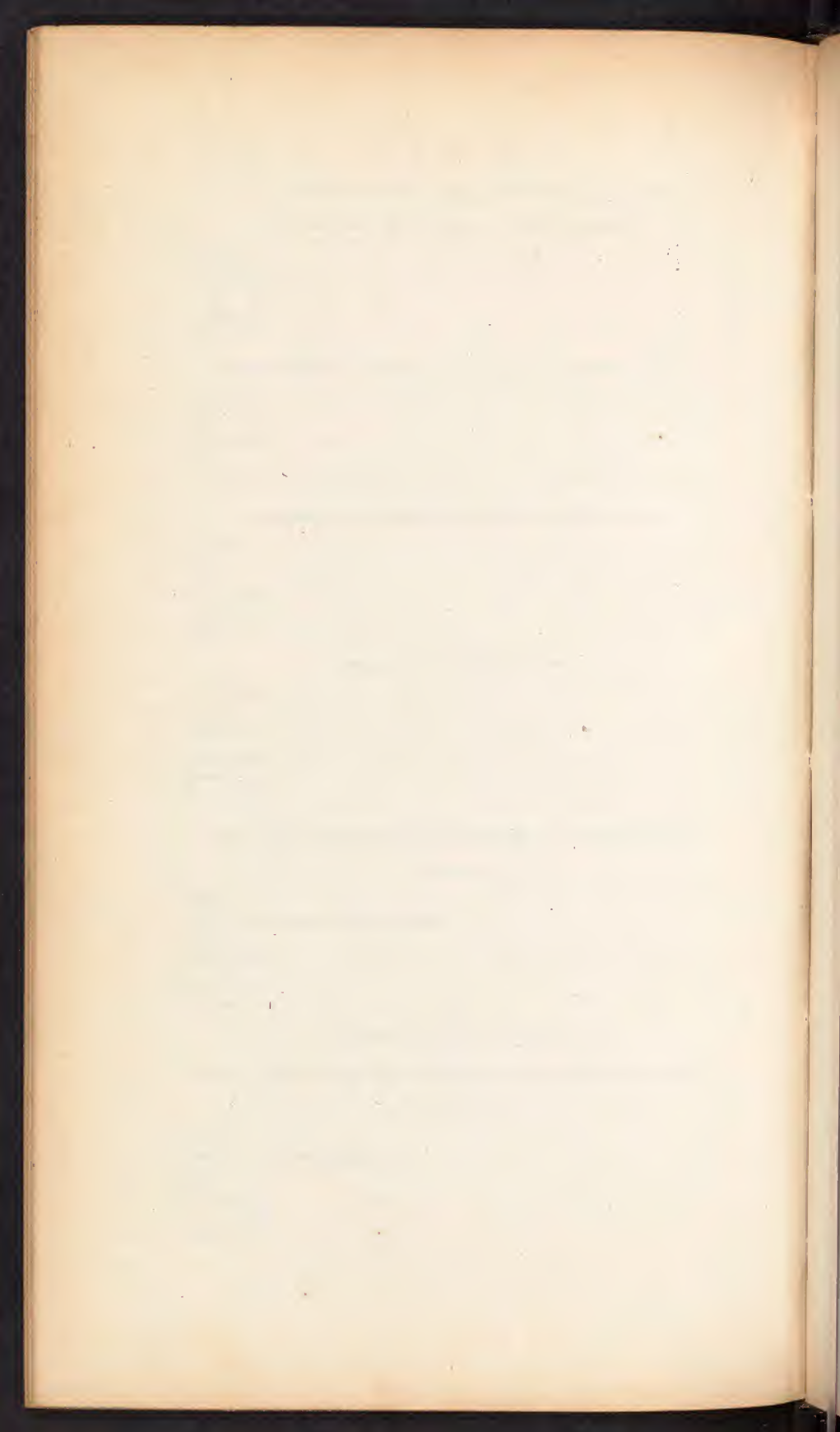
*Diagnosis.*

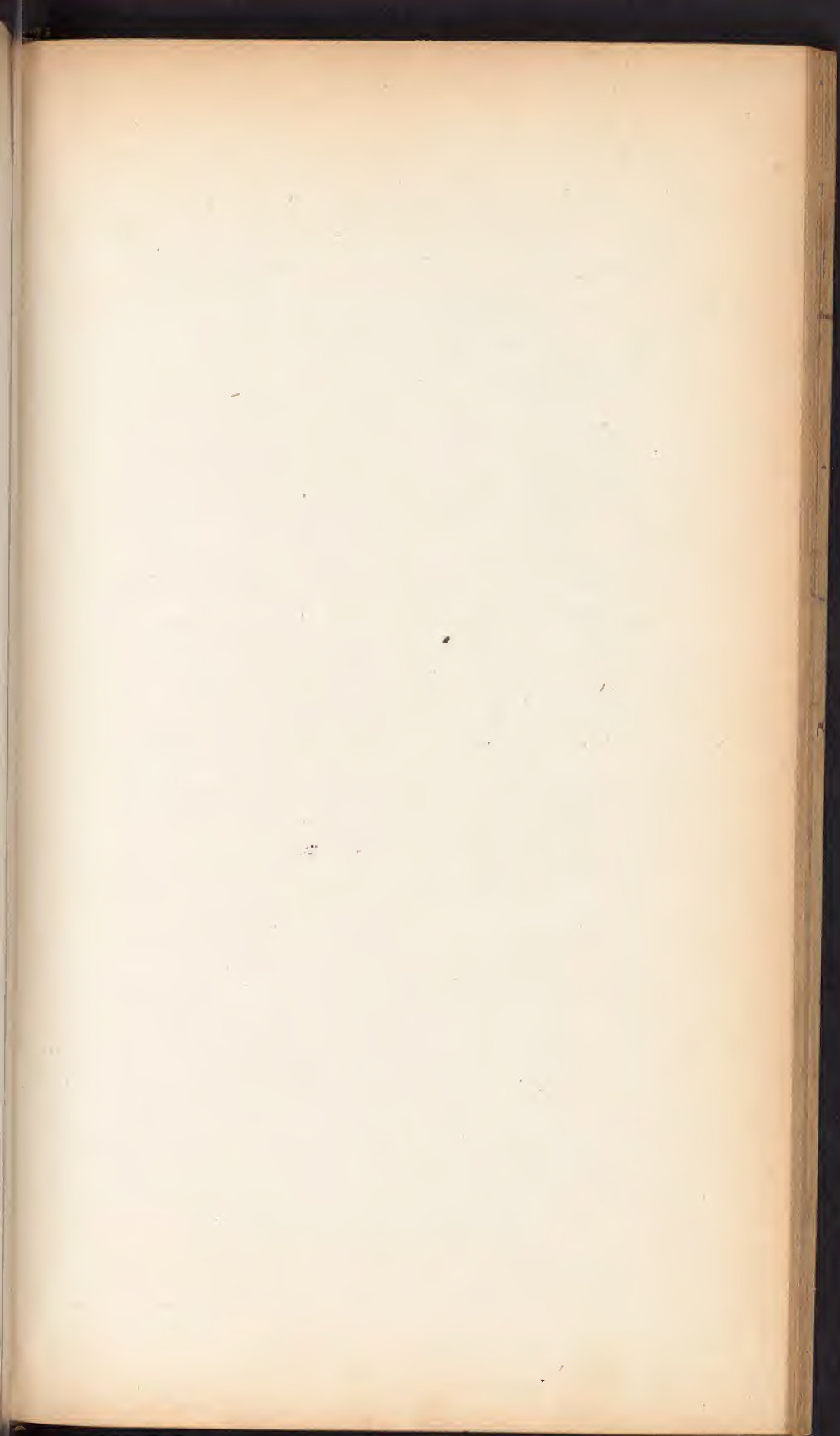
*Prognosis.*

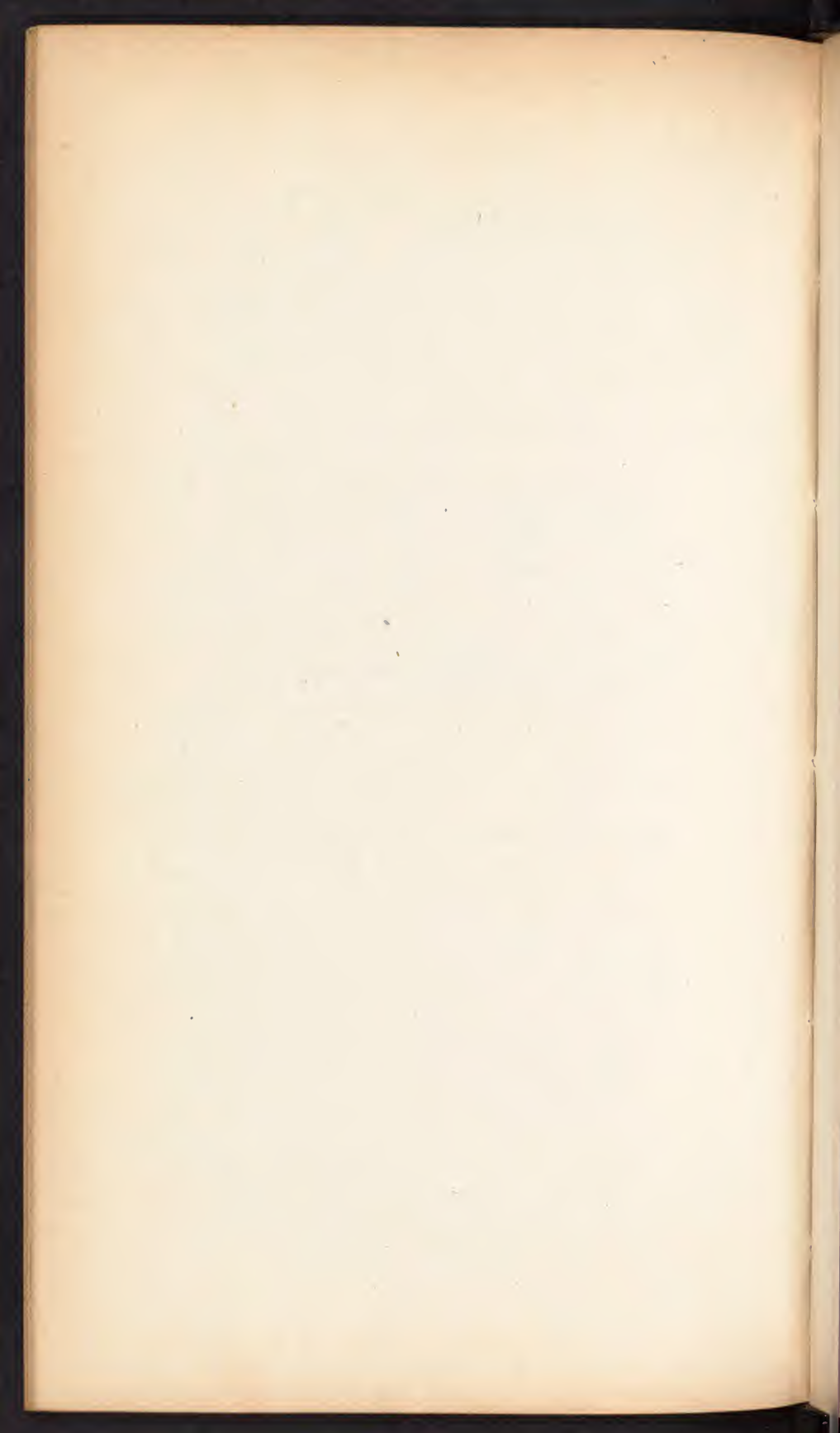
*Treatment.*

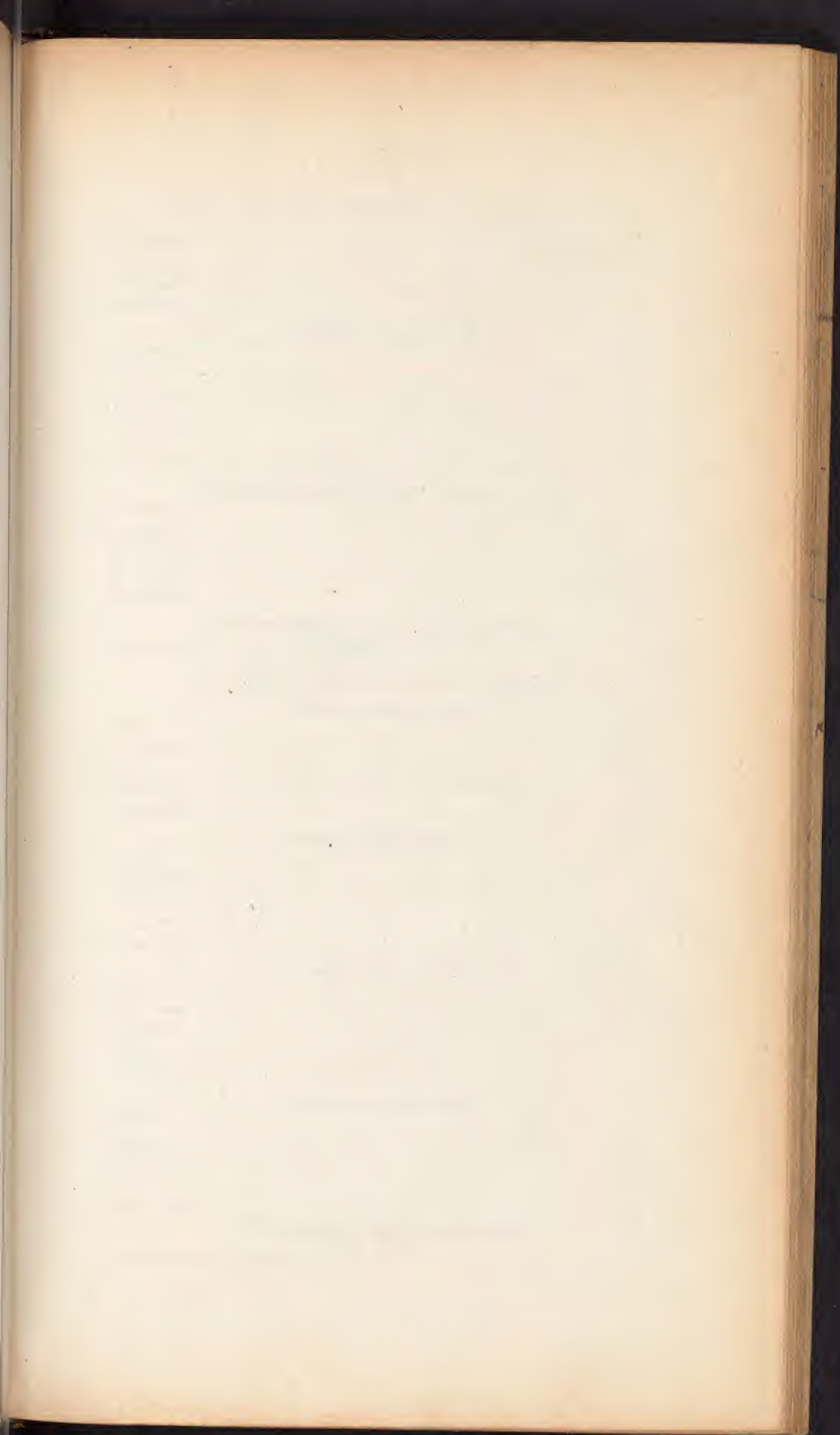




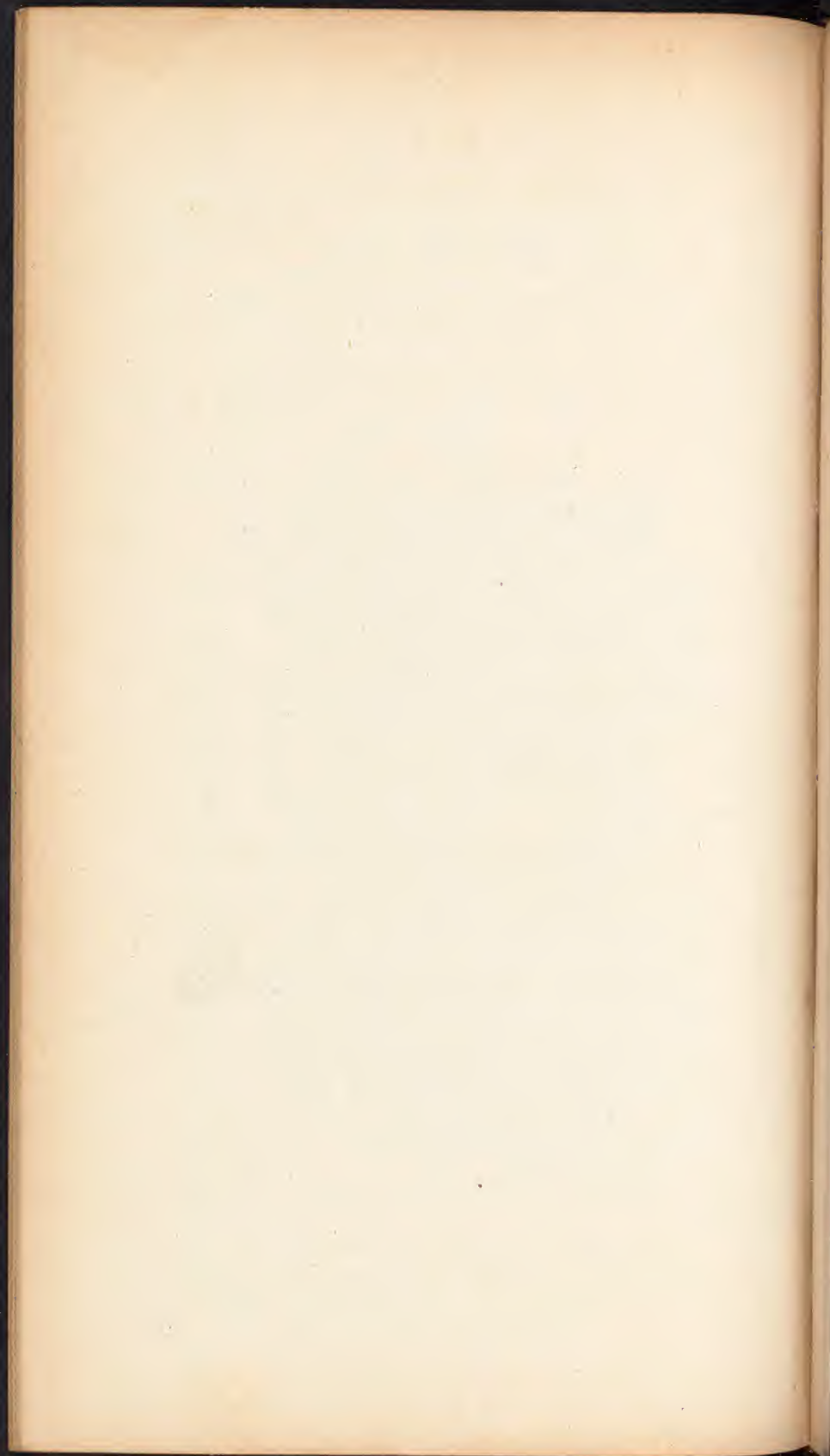












ABSCESS.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

FISTULA LACHRYMALIS.

*Definition.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

PERMANENT OBSTRUCTION OF THE NASAL DUCT.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

CONGENITAL DEFICIENCY OF THE NASAL DUCT.

Operation for its relief—(see Berard.)

XIV. MALIGNANT DISEASES OF THE EYE.

FUNGUS EXCRESCENCES.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

CARCINOMA OF THE EYE.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

FUNGUS HEMATODES OF THE EYE.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

MELANOSIS OF THE EYE.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

XV. EXTIRPATION OF THE EYE.

Mode of performing the operation.

XVI. INTRODUCTION OF AN ARTIFICIAL EYE.

*Preparation of the eye.*

*Mode of placing it.*

XVII. ANALOGOUS DEGENERATIONS OF THE EYE.

OSSIFICATIONS AND CALCULOUS CONCRETIONS.

XVIII. ENTOZOOA IN THE EYES.

*Kinds usually met with.*

*Symptoms produced by their presence.*

*Effect upon the eyes.*

*Treatment.*

XIX. DISEASES OF THE ORBIT.

WOUNDS.

*Varieties.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

FRACTURES OF THE BONES.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

FOREIGN BODIES LODGED IN THE ORBIT.

*Symptoms.*

*Prognosis.*

*Treatment.*

INFLAMMATION OF THE CELLULAR TEXTURE OF THE ORBIT.

*Causes.*

*Varieties.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Results.*

*Treatment.*

TUMOURS IN THE ORBIT.

*Various kinds.*

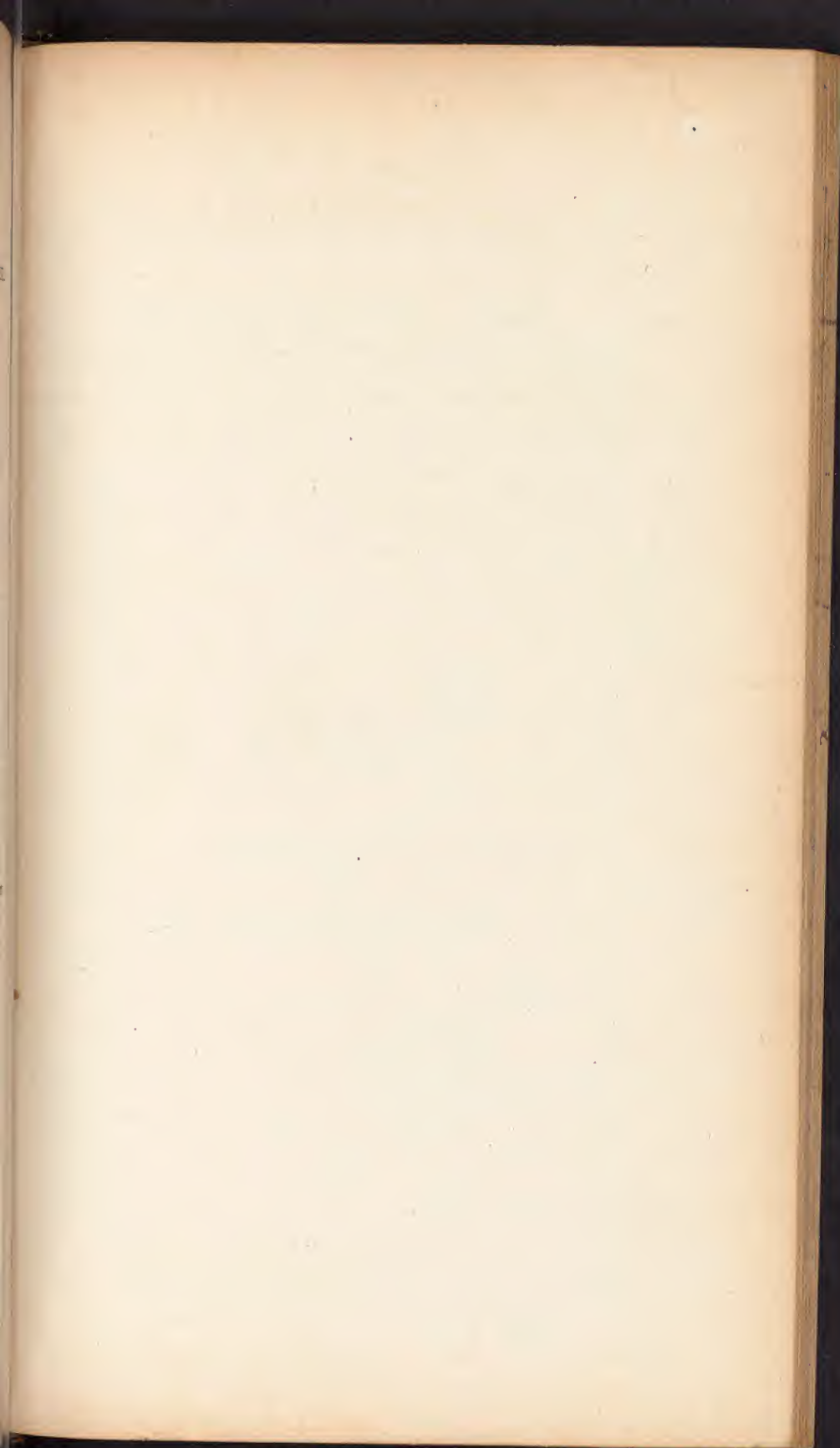
*Causes.*

*Symptoms.*

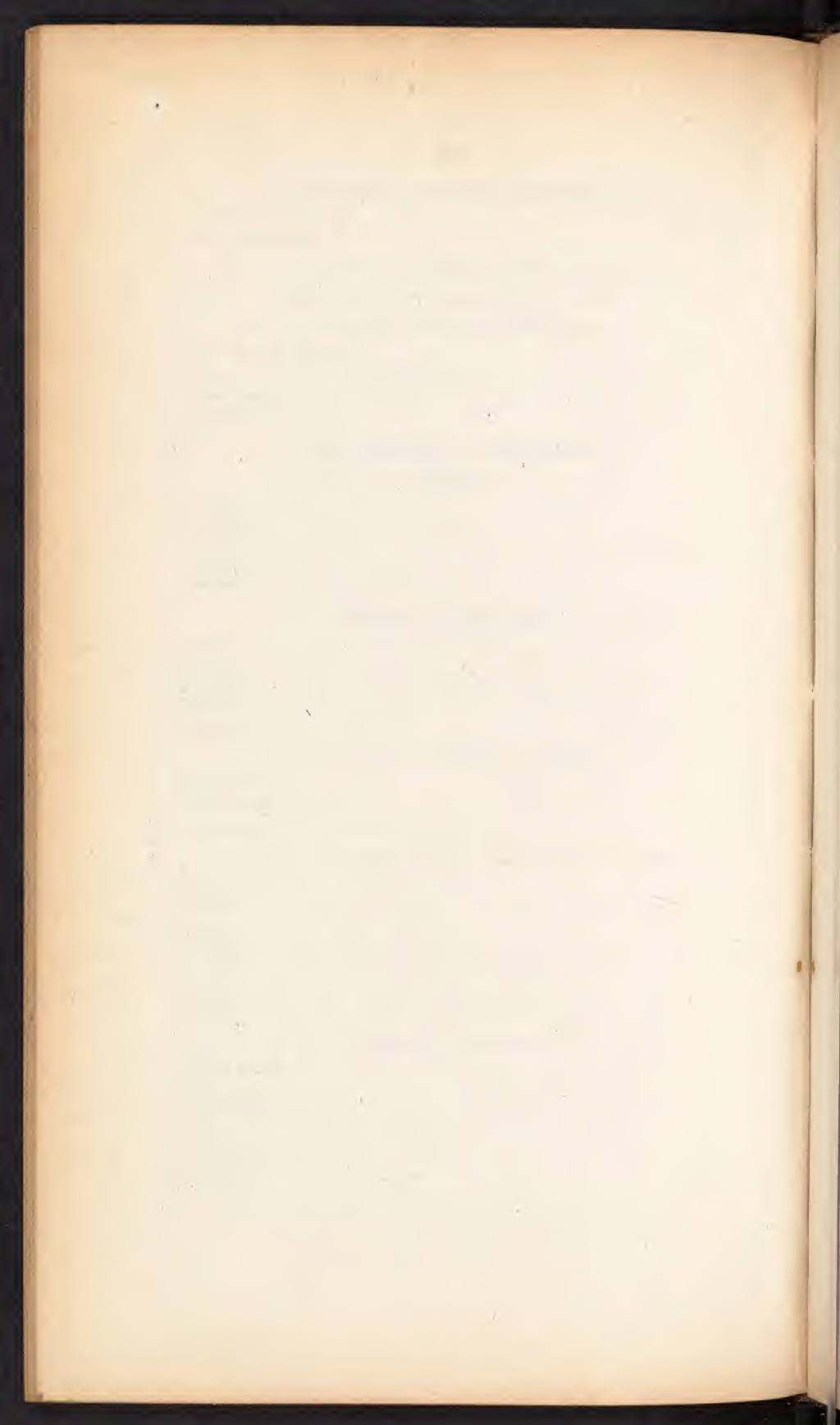
*Diagnosis.*

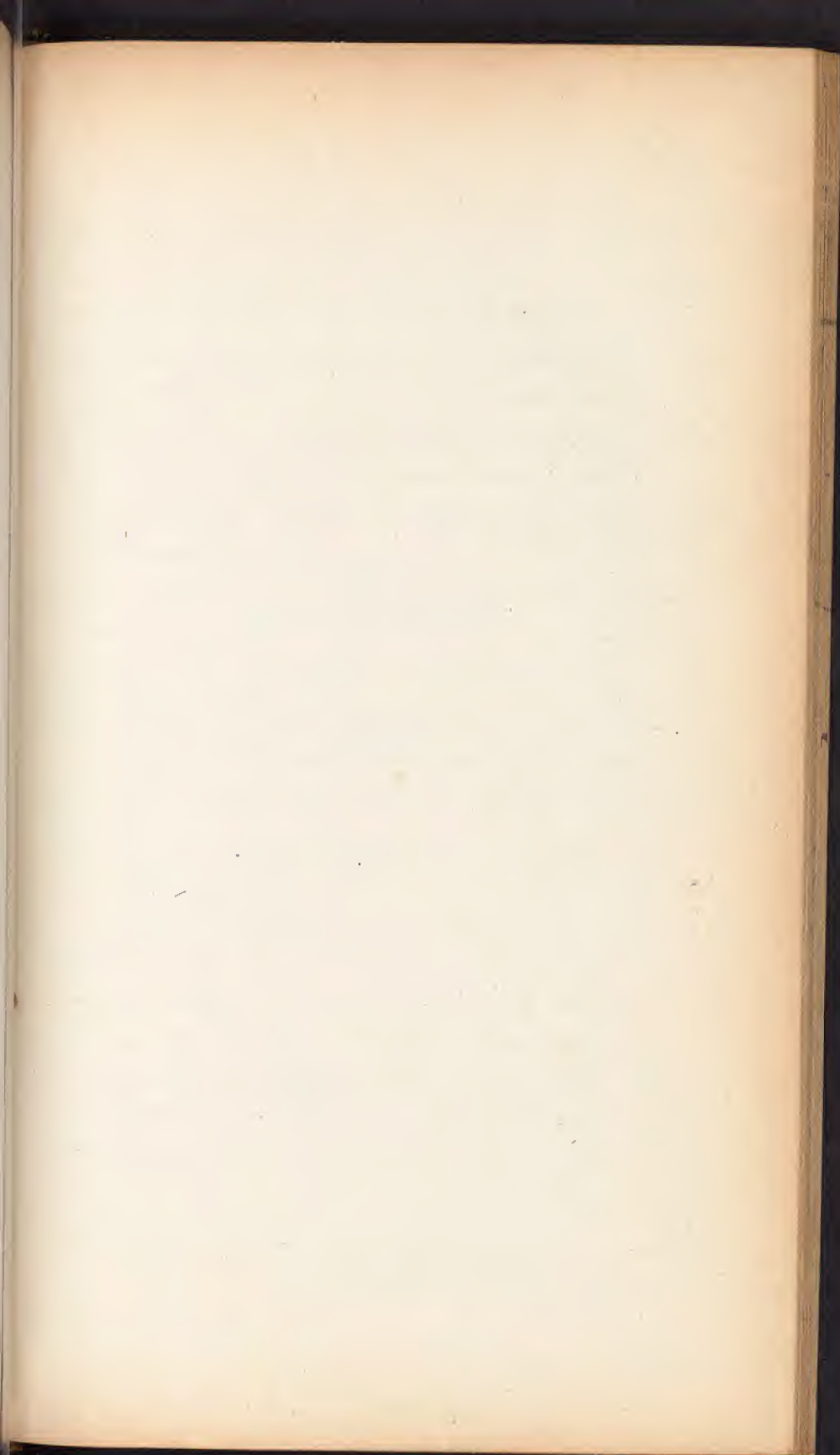
*Prognosis.*

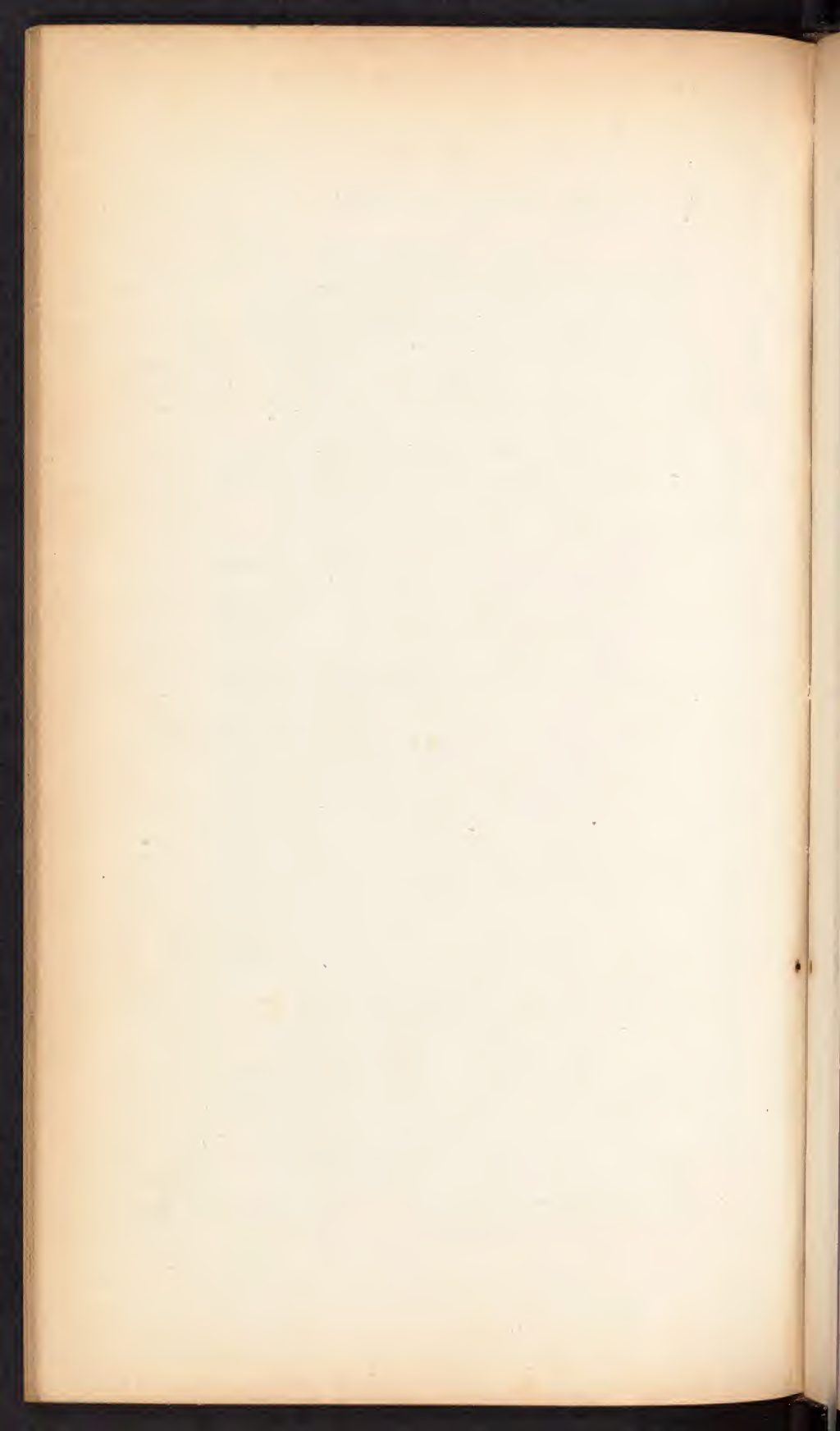
*Treatment.*

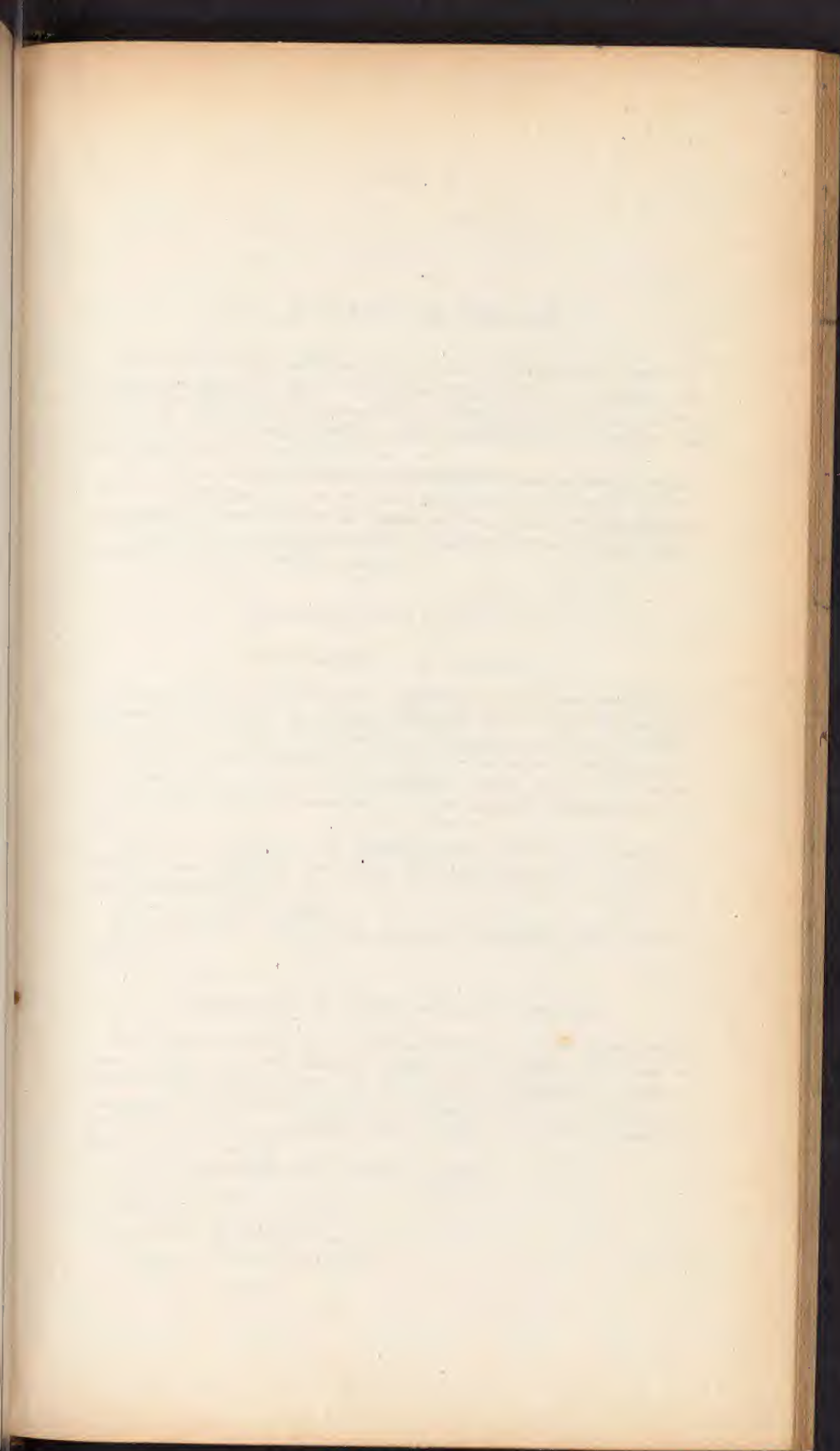




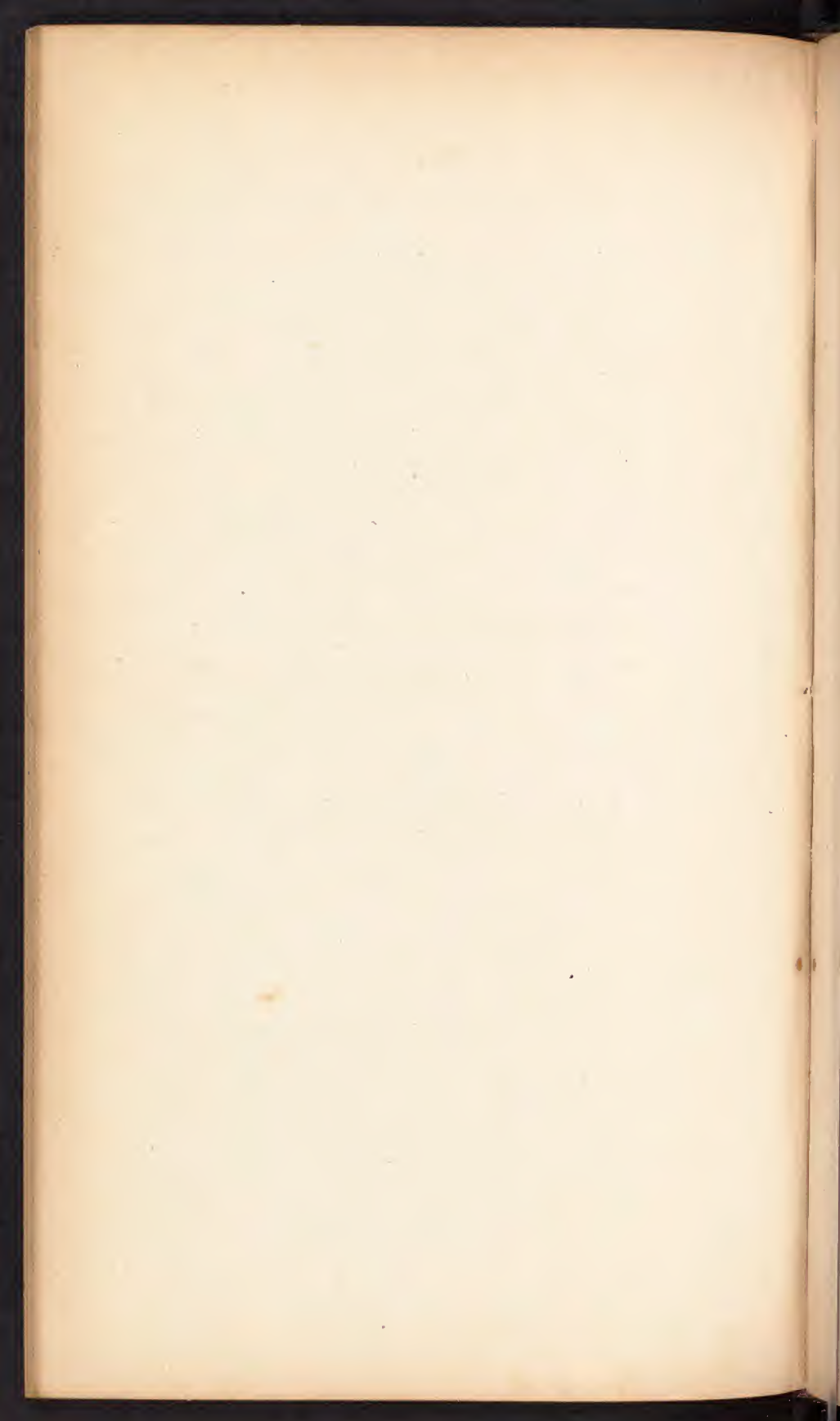












## IV. DISEASES OF THE EAR.

*Anatomy of the Ear.*—Divided into external, middle, and internal ear. The external ear consists of the auricle, and the meatus auditorius externus. The middle ear consists of the tympanum and its appendages, namely, the membrana tympani; the four ossicula auditus with their ligaments and muscles; the eustachian tube; and the mastoid cells.

The internal ear, or labyrinth, as it is termed, from its complexity of organization, is divided into bony and membranous labyrinth—the bony is subdivided into vestibule, three semicircular canals, and the cochlea—the membranous labyrinth is found within the semicircular canals and the vestibule and contains the thin serous fluid called liquor cotunnii.

## MALFORMATIONS OF THE EAR.

## MALFORMATIONS OF THE AURICLE.

*Cases most frequently met with.*—1. Deficiency of helix, and sometimes its division from the lobus. 2. An entire absence of the lobus—its division by a slit into an anterior and posterior portion—or its attachment wholly or partially to the integuments of the side of the head. 3. The tragus and anti-tragus are sometimes united, or inverted so as to partially close the opening of the meatus. 4. The total absence of the auricle. 5. An enormous enlargement of the auricle.

*Causes.*—1. Congenital. 2. Acquired, from wounds, bites, ulceration, sloughing—an increase in size is often the result of manipulation, or of the dress stretching the part.

*Effect upon sense of hearing.*

*Treatment.*—By artificial ear, by removal of overlapping portion, by dilatation.

## MALFORMATIONS OF MEATUS AUDITORIUS EXTERNUS.

*Most frequent varieties.*—1. A very narrow canal. 2. An unusual shortness of canal. 3. A total absence of canal. 4. A closure of the canal at birth by a slimy caseous matter. 5. A closure of the orifice by the integument stretching across it and being attached to its margin; or by a membrane in any part of the canal; by a contraction in the cartilage, or by undue ossification of the bony part of the tube.

*Causes.*—Mostly congenital—sometimes acquired.

*Effect upon hearing.*

*Examination of meatus externus.*

*Prognosis.*—Modified by cause.

*Treatment.*—Varies with the case.

## MALFORMATIONS OF THE MIDDLE EAR.

*Importance.*—Most of them are attended with deafness, and the cause is generally not to be removed.

*Most frequent variations.*—1. The cavity has been found much smaller than usual. 2. The cavity has been inordinately large. 3. The outer wall has been ossified—in fact a bony plate has occupied the place of the membrana tympani. 4. The ossiculæ auditus are often varied in their conformation, thus one or more of them may be too small or too large or deficient in ossification, or ossified together, or altogether wanting. Supernumerary bones have also been found. 5. The tympanum has been found filled with a soft white matter resembling inspissated albumen; also with a scrofulous deposit. 6. The eustachian tube may be wholly or partially obliterated.

*Causes.*—1. Constitutional. 2. Acquired.

*Diagnosis.*—An examination will teach the condition of the membrana tympani. Catheterizing and injection of air will teach the condition of the eustachian tube.

*Prognosis.*—Only favorable in partial obliteration of the eustachian tube.

*Treatment.*—Varies with the kind and cause.

## MALFORMATIONS OF THE INTERNAL EAR.

Various malformations of the labyrinth have been noticed—it has been entirely wanting—it has been deficient in ossification—change in quantity and consistence of the liquor cotunnii has also been observed.

Such deficiencies are of course beyond the reach of art.

## WOUNDS OF AURICLE.

*Usual varieties.*—Incised, lacerated, contused.

*Treatment.*—Differs in no respect from that for similar injuries in other parts; bearing in mind the deformity resulting from the loss of even a small portion, union is always to be attempted.

## PARTICULAR DISEASES.

## OTITIS.

*Definition.*—Generic term, implying general disease of the whole organ.

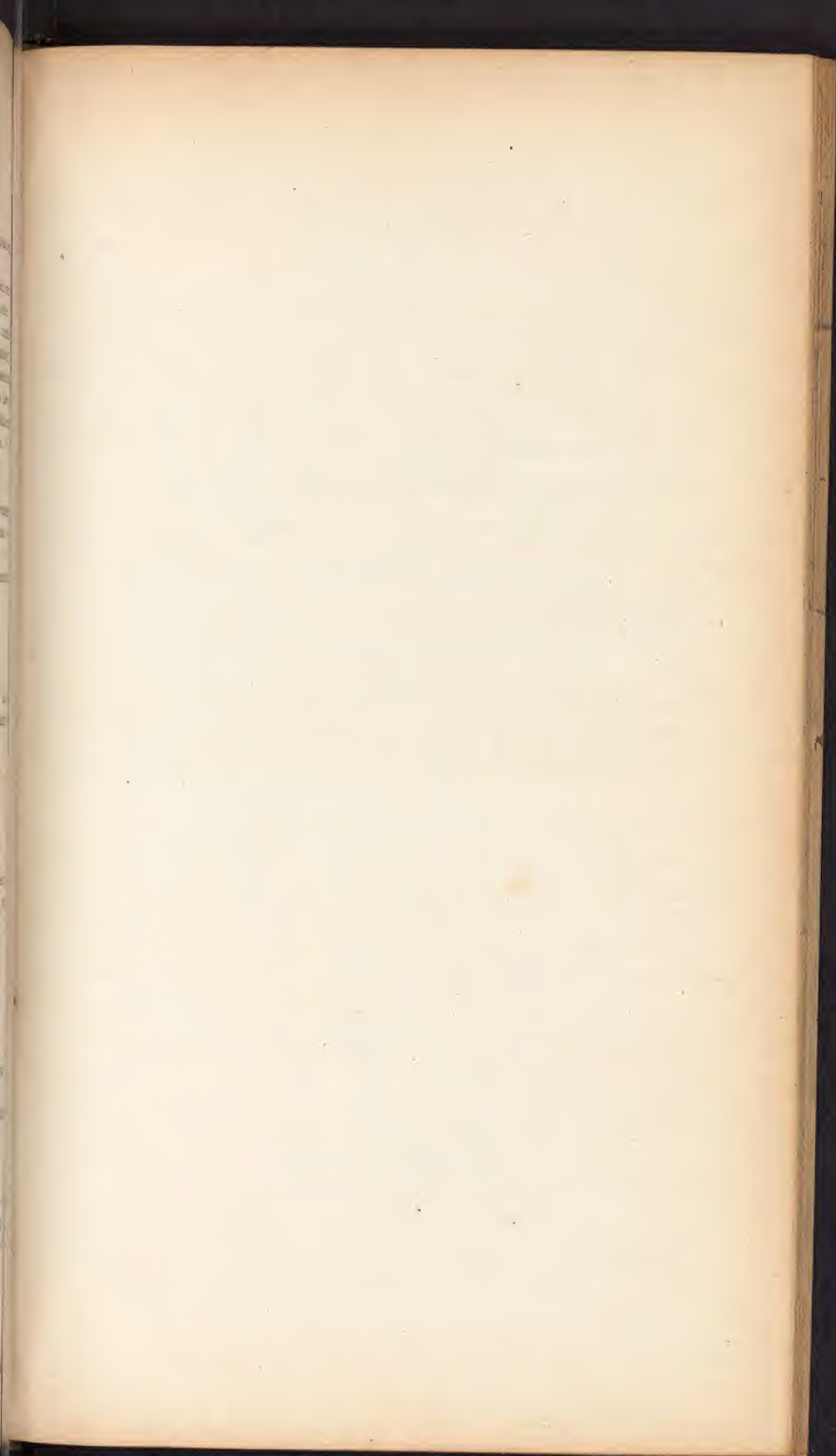
*Division of* —Acute, chronic, external, internal.

External includes inflammation of the auricle, and of the meatus auditorius externus.

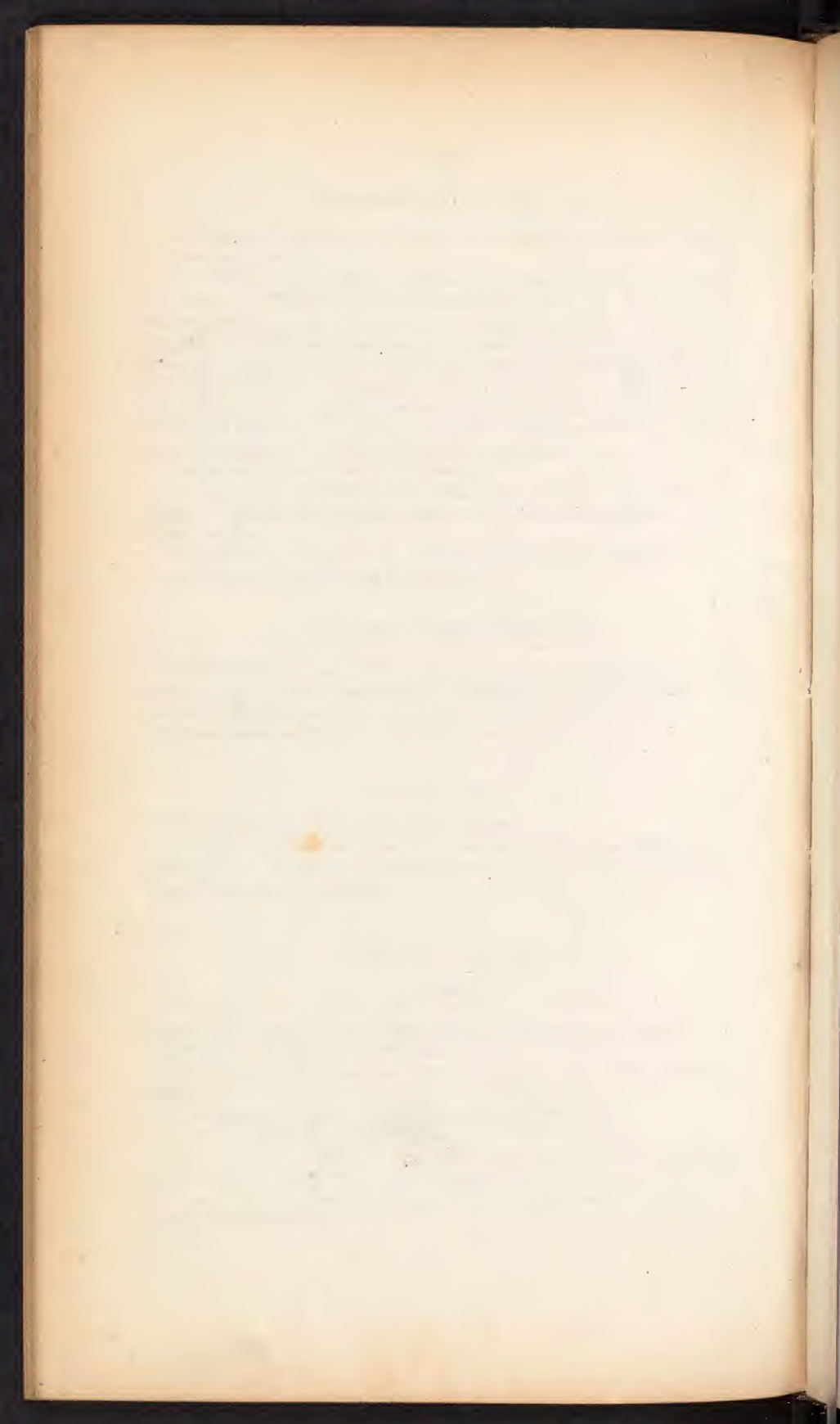
Internal includes inflammation of the tympanum and labyrinth.

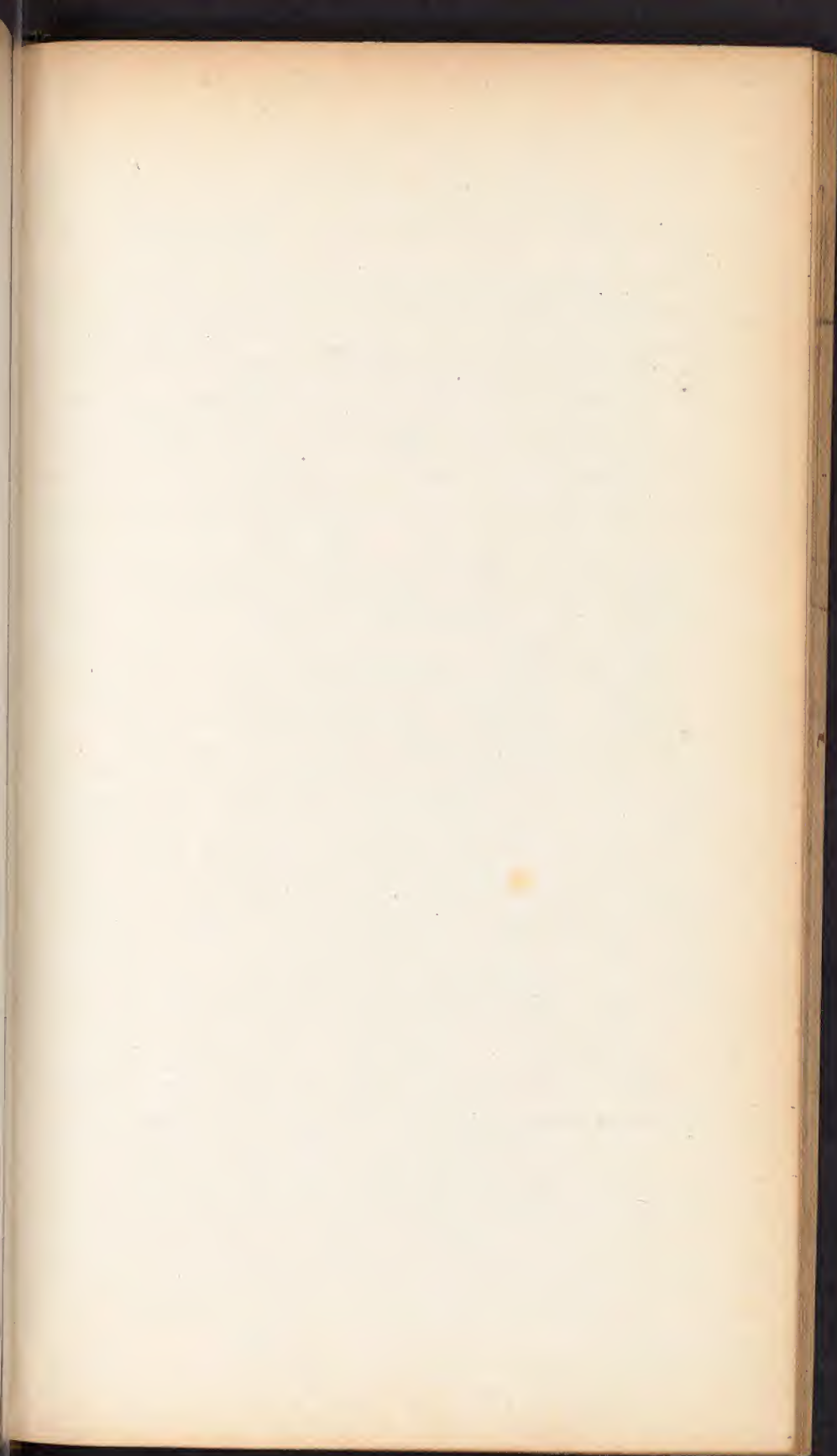
*Causes.*—1. Exciting. 2. Predisposing.

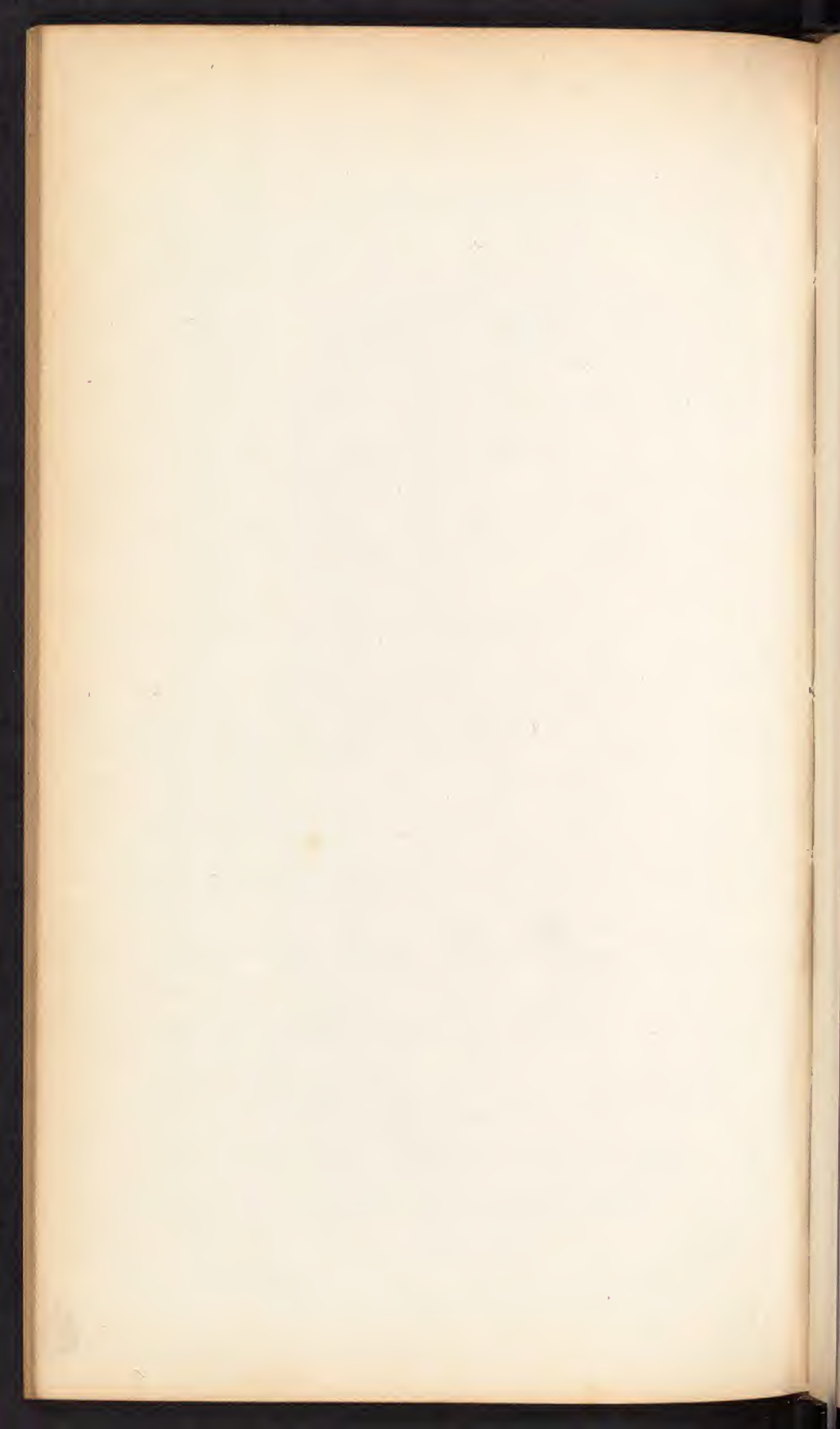
*Symptoms and consequences.*—As acute inflammation seldom attacks the entire organ at the same time, or from the same cause, these vary according to the structure of the part inflamed, and will be described under the heads of diseases of particular parts.

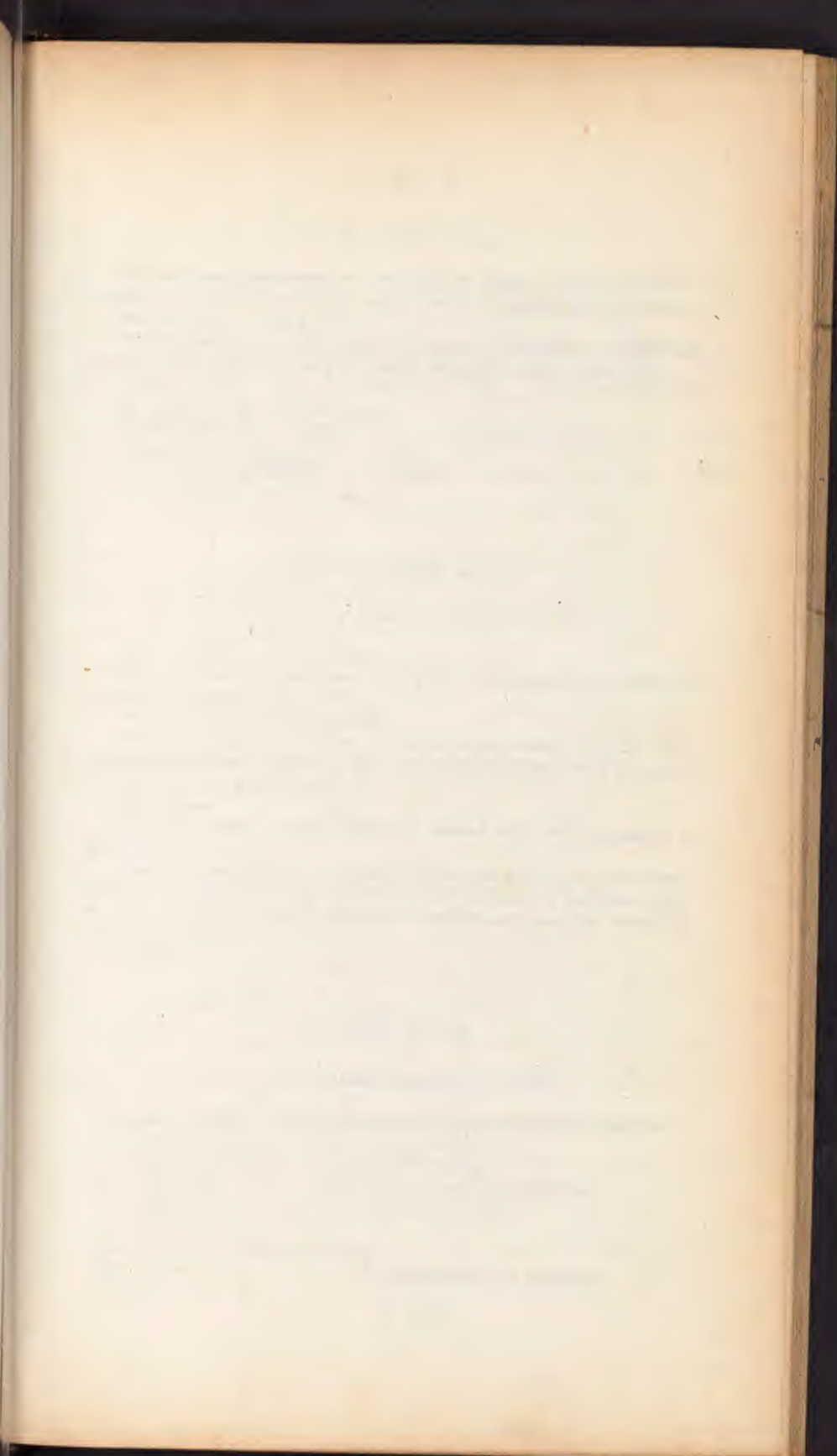














In art. press formed the muddled or typ  
out of melted metal either perforate  
Membranes by means or forms a  
Common in solid varieties of Bones,  
and along side the ~~Typhlopan~~

## ACUTE EXTERNAL OTITIS.

*Seat.*—Sometimes commences simultaneously in the auricle and meatus—more frequently it extends from the auricle to the canal—it however is sometimes limited to the meatus.

*Most frequent forms.*—Erysipelas, erythema, in short, all the inflammatory actions, either common or peculiar, which affect the cutaneous system.

*Causes.*

*Symptoms.*—Vary with the form.

*Consequences.*

*Diagnosis.*

*Prognosis.*—Favorable.

*Treatment.*—1. Local. 2. General.

## ACUTE INTERNAL OTITIS.

## INFLAMMATION OF TYMPANUM AND LABYRINTH.

*Forms.*—Primary. Consecutive.

*Seat.*—Mucous lining membrane at first, then extending to cellular tissue, to periosteum and to the bone itself.

*Causes.*—Exciting. Predisposing.

*Symptoms.*—Agree with those of external otitis, differing only in consequence of their much greater severity, and of the circumstances of the matter formed not finding a ready outlet.

*Consequences.*

*Diagnosis.*—May be confounded with external otitis, with meningitis or phrenitis.

*Prognosis.*—Grave—as troublesome otorrhœa may result—the ossicula may be lost—the membrana tympani or the mastoid cells may be perforated—permanent closure of the eustachian tube may result—or phrenitis, meningitis, and death may follow.

*Treatment.*

## CHRONIC OTITIS.

## DIVISION—INTO EXTERNAL AND INTERNAL.

External is divided into that of the auricle and that of the auditory meatus.

Chronic Inflammation of the auditory meatus includes—

- 1st. Erythema of meatus with diminished secretion.
- 2d. Inflammation of dermal membrane with inordinate secretion.
- 3d. Polypus, fungus, and vegetations of auditory canal.
- 4th. Sinus of meatus.
- 5th. Inordinate ceruminous secretion.
- 6th. Aphthæ or herpetic ulcerations of lining membrane of meatus.

## CHRONIC INFLAMMATION OF THE AURICLE.

*Definition.**Causes.**Symptoms.**Diagnosis.**Prognosis.**Treatment.*—Local and constitutional, as the local affection is often maintained by general derangement of the health.

## CHRONIC INFLAMMATION OF MEATUS AUDITORIUS EXTERNUS.

## ERYTHEMATIC CHRONIC DISEASES OF THE MEATUS.

*Synonyme* —l'Otite chronique seche. (Roche.)*Causes.*—General derangements of health.*Symptoms.*—Uneasiness, slight pain, itching, dry sensation, difficulty of hearing, tinnitus aurium.*Diagnosis.*—Tube unusually dry—wax in small quantity—most frequently a vitiated secretion of a white or yellowish scaly matter.*Prognosis.*—Favorable.*Treatment.*—Attention to general health—tonics—counter irritants—astringents.

## II. CHRONIC INFLAMMATION OF DERMAL MEMBRANE WITH INORDINATE SECRETION.

*Synonymes.*—Humid chronic external otitis, (Roche,) mucous or catarrhal otorrhœa. (Itard and Andral.)*Frequency of occurrence.*—Very frequent.*Age most liable.*—Childhood—sometimes occurs in old age.*Causes.*—Acute inflammation—irritation of dentition—metastasis of gout, gonorrhœa, and mucous ophthalmia—presence of a foreign body.*Symptoms.*—Usually mild—uneasiness—audition slightly diminished—profuse discharge either serous, mucous, or puriform, or mixed.*Diagnosis.**Prognosis.**Treatment.*—Removal of the cause—improvement of general health—cautious use of astringents.

## III. POLYPUS, FUNGUS, AND VEGETATIONS OF AUDITORY CANAL.

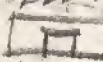
*Difference between them.*—Polypus is oval or round, attached by a single root, usually regular in its shape and firm in consistence. Fungus is a mass of exuberant granulations, soft and vascular, irregular in its shape and attachments, and always attended with free discharge. Vegetations consist of numerous small diseased growths, sometimes soft and fungoid, at others, firm and conical, and attended with slight discharge.



## Fractures From page 44

b. direct force only - d. - great deformity -  
f. - easy - h. - always set - have use  
of masseter muscle, binding of jaw  
also binding of vaccination muscle  
to set it introduce thumb in cheek  
and pressing up and inward, if zig  
arch pulled down the temporal  
temporal fossa little deformed -  
will give great pain, by pressure  
on muscle, endeavor by taking  
hold of piece and pull it up - by  
making an opening below seat  
of injury. Superior Maxillary  
generally have it occurring in  
lower portion, always force directly  
applied. dentist oc. treat. I dent  
with that of zygoma - when  
there is a large portion of bone torn  
away - irregularity of dental  
arch and crepitas - on finger  
hooked in mouth - where alveolar  
process is broken - set is easy  
pushed back and keep it by  
compress - lower jaw as a  
splint - when no teeth use  
cork coated with white wax  
by May - at Symp - or  
between symp and angle - on  
both sides separating chin  
wholly or exorced



each having peculiar sym-  
pt on one side of sym - no  
displace - on both sides  
great displace owing to the  
degenerative and other muscles  
of having it in drawing a  
Horth. Spasm Symp - When  
the inf. dent for on a, a strong  
intense, more or less displace  
and in case - especially in children  
throat. Model fragment and  
apply apparatus. Take  
a bit of pasteboard  and  
fit so as to make Chin Cup -  
when upper jaw fract also  
this won't do - but use a  
long cup carrying over the  
upper jaw - Large cup - pad  
it, fit to Chin take 4 tail band  
put over chin and tie on top of  
head and taking over the  
occiput - and tie it to the  
slipping - Ray Barons - a  
compress to pass from chin  
to trachea a roller over occiput  
apical to frontal go down  
turn under chin go back  
to occiput then over the chin  
horizontally

Coronoid Process, force direct  
or spason - swelling - little or  
no displac. Diagnosis -  
pain - Osseous crepitus - on  
moving lower jaw - Rub the  
temp muscle - just if cant  
make out diagnosis put  
in case and treat as pain

Condyle - when lifted draw  
forward and makes an  
areolar lump and depress -  
and gyna - no creps - insain-  
motion and pain - Simple  
drawing wont answer

Treat - Take Compress fold  
pink loose rag - and inter-  
pose cylinder - and then use  
roller 1 Os Hyoides, Bag  
grasp or blood, as seen and done  
all ways have displacement  
when draw out Treat Simply  
when drawn in - danger

2nd great difficulty of locating  
coming on in med - feel and  
push with fall into cavity  
suppuration - from codema -  
prob even dangly guarded  
what does this take hold of tongue  
thrust down as far as possible  
pull on epiglottis and on draw  
to push bag out - don't leave



bag - pass in Tenaculum -  
and pull out. If bag out  
no difficulty -

Improved Cartilage  
Bag - easy - but great danger  
of suffocation - pry out  
depressed portion of

Sternum - Often broken by force  
directly applied or by muscular  
contract - May be longitudinal  
transverse & when transverse may  
have fragments driven in and  
down one dragged out - diagnosis  
easy - Ind. in fracture is to keep  
ends together in same plane and  
look out for inflam. - if Comp.  
fracture pick out pieces and  
reat - to place the bag - bendy  
patient across a cylinder  
in order to stretch abdominal  
muscles - direct patient ~~to be~~  
to lie in same position for some  
days - to keep bag in situ  
two compresses as fulcrum. If  
can get up this way cut the  
integrity under a smooth  
piece of sled &c and lift -

Ribs - By direct force of center  
of rib or on extremity. The bag  
are driven in as force directly  
applied if cannot and then

broken the bones will be driven out  
ten times as much danger when pieces  
are driven in. Symptoms - Cough  
pain crepitation nearly always  
more or less swelling - long breath more  
pain - sometimes diagnosis difficult  
as when man fleshy - or far back Sape  
surgery then when these symptoms  
are found always treat as fracture  
when surgical abs. broken generally  
have shortening of rib - Location  
simple - surrounded - chest bed when  
low dist bc - when do place out  
place compress over seat of injury  
when driven in use compresses to  
prevent. If compound always connect  
with Emphysema known by lack of  
absence of any acute pain - punctate  
skin squeeze out all gas then set  
fracture and apply roller. Be very careful  
to get out - ~~Emphysema~~ - when lung  
wounded have hemorrhage - if possible  
stop it by all hemostatic agent if  
small beneficial - Air will get  
through the lung into chest and  
almost suffocating - sometimes  
not so - then let it be - if dangerous  
let out with trocar - Another  
complication - ~~pleurisy~~ - when  
when bandage is compressing  
away - make sheath of paste-board  
and bind over this -



Clavicle. Force direct frag down  
in when Counter Stroke driven out  
diagnosis sometimes difficult -  
Symp - the weight of arm displ  
the out fragment - the Cont of peck  
mules and limb drawn against  
chest - And also lengthened -  
goes also downwards inwards and  
forwards - to contend against  
and in sitting meet carry up  
in. The arm is generally found across  
chest and bones overlapping  
frag - as to cure easy but intricate  
dynamically sometimes difficult -  
Mind to Dressing and tightening every  
day; local heat - and 3 - Delant  
Fog - 3. Major Hand Kerchief  
1 - 3 - rollers - pad don't matter  
hard - Always - carry both arms  
out to attach pad - begin axilla  
sound side pass by circular  
turn around body - to prevent  
slip Carry over shoulder, work  
arm to discharge frag - flex arm  
and only, then lay compress  
on broken end, axilla of  
sound side - carry roller  
over shoulder and down arm  
Repeating arm in. 3 roller. Axilla

*Causes.*—Chronic inflammation—local irritation from foreign bodies—injury to lining membrane by the ear-picker.

*Symptoms.*

*Diagnosis.*

*Prognosis.*—Favorable in polypus—not so favorable in fungus and vegetations.

*Treatment.*—By excision and caustics—by ligature—by extraction with forceps—by caustics alone.

#### IV. SINUS OF MEATUS.

*Definition.*

*Causes.*—An abscess external to the meatus—a diseased mastoid bone.

*Symptoms.*

*Diagnosis.*

*Prognosis.*—Unfavorable.

*Treatment.*—Modified by cause—palliative chiefly.

#### V. INORDINATE CERUMINOUS SECRETION.

*Causes.*—Acute or chronic inflammation of the meatus.

*Symptoms.*

*Diagnosis.*—May be confounded with almost any of the other diseases of the ear; a careful examination must decide.

*Prognosis.*—Favorable.

*Treatment.*—Allay any existing inflammation; remove any inspissated cerumen; apply some gentle stimulant. Dangers arising from incautious syringing.

#### VI. APTHE OR HERPETIC ULCERATIONS OF LINING MEMBRANE OF MEATUS.

*Causes.*—Chiefly constitutional.

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*—Tonics, and alteratives for the general health; local alterative astringent injections.

#### FOREIGN BODIES IN THE MEATUS AUDITORIUS EXTERNUS.

*Nature of these.*—Round and smooth substances, as beans, peas, glass beads; sometimes insects of various kinds.

*Origin of Insects.*

*Symptoms.*—Those of chronic inflammation, occasioning an otorrhœa, where the cause continues to operate for any length of time.

*Treatment.*—Removal of the cause will sometimes alone be sufficient; solid substances may be removed by the forceps or by forcible syringing with warm water; insects may be removed by a few drops of oil, or of infusion of tobacco, &c. &c.

*Dangers arising from force applied for the extraction of foreign bodies.*



## INTERNAL CHRONIC OTITIS.

### CHRONIC INFLAMMATION OF MEMBRANA TYMPANI.

*Causes.*

*Effects.*—Ulceration; perforation; complete destruction.

*Mode of inspection and examination.*—By speculum; by forcible expiration; by sounding and by the otoscope.

*Symptoms.*

*Diagnosis.*—May be confounded with disease of meatus, or of tympanic cavity.

*Prognosis.*—Unfavorable to audition.

*Treatment.*

### CHRONIC INFLAMMATION OF TYMPANUM.

*Forms.*—Primary. Consecutive.

*Seat of disease.*—Mucous membrane; frequently extending to the cellular tissue, and onwards to periosteum and bone.

*Causes.*

*Effects.*—Perforation of membrana tympani; loss of ossicula; abscess of mastoid cells; caries of petrous bone; effusion of pus under dura mater or between the cerebral membranes.

*Symptoms.*

*Diagnosis.*—May be confounded with other inflammatory diseases of internal ear, with meningitis or phrenitis.

*Prognosis.*—Unfavorable.

*Treatment.*—Modified antiphlogistic; injections of mild fluids through the eustachian tube.

### RELAXATION OF MEMBRANA TYMPANI.

*Definition.*

*Varieties.*—1. From want of tone in the membrane. 2. Paralysis of the internal muscles of the malleus. 3. Rupture of the same muscle.

*Causes of each.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*—Of first two, favorable; of the last, unfavorable.

*Treatment.*—Dry warm tonic applications; tonic and astringent injections.

### CARTILAGINOUS AND OSSEOUS CONDITION OF MEMBRANA TYMPANI.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*—By perforation.

*History of operation.*—First proposed by Cheselden; proposed and performed by Sir Astley Cooper in cases of obliteration of eustachian tube.

round side over shoulder  
be acting as a sling keeping  
should up. Not much used  
1  $\frac{1}{2}$  Most uncomfortable a very  
troublesome - not safe because  
loose - 3 - in warm weather very  
uncomfortable - in female Compression  
mammary gland - Land Rover  
folded - drag - pass around  
and tie under ax - 3 - roller  
have another round - tie around  
neck - Fox appar - plane  
X Scapula - are commonly  
met with portions more liable than  
other the most from Acromion is most  
liable it overhangs shoulder - and  
the shoulder is prone to dislocate  
the displacement being drawn  
down by deltoid muscle the  
flattening shoulder - the joint  
gives and known at once - facility  
of displacement of elbow by elevation  
of arm - will not be as strong  
as exceedingly difficult to keep  
pass in appose we will have  
against union heat to come pass  
together and to keep shoulder  
up - don't put a pad in axilla  
space of arthritic plaster and  
fasten on elbow



2. apply pad between Elbow and side to relay deltoid then sling scapula - at Superior Angle give in comminuted, and in displacer great trouble - diagnos - by passing finger over a prominence and depression posteriorly, probably 2nd. Knap bone hit rest and paralyze the action of Serratus Anticus muscle - Seat in ylf - compress ~~and~~ in front of fract and sit in Knap arm in sling - for 8 weeks -

Coracoid Process - Spasmodic action will move it displace - dragged inwards and downwards - rarely have but ligament - union - must set in time - before can set fracture - symptoms -

Arm drawn into chest - if put arm back can't move the humerus any more, no crepitus -

Seat - To overcome action of P.M. S.H. - in and C.B. - make hand across chest - ground etc. may be broken in all part -

Spine - from direct force - Drag by moving back in Sup. Inf. direct - no displace -

It is to put at rest D. & Sup - S. must put arm in sling and surround chest with collar -

MCCL - very rare some say not happen passing through C-notch - only from force direct - the arm becomes longer - a dep. under Acromion - Shoulder flattened 3 symp - diagnosis take hold of humerus rotate when shorten arm and have crepitus. Look precisely like



luxation - Poss - Fav - Ind to Keep Elbow  
up - don't put a pad in axilla

Treat put arm and fore arm in sling  
and surrounding whole arm with transverse  
bandage - XI

Humerus 1. Head - By direct  
and fracture - Simple fracture from blow bc - When  
patient's fleshy sometimes diff. diagnosis from sep  
of b. In - 2 from an displace - or very little  
manifested by excessive pain and swelling  
rotate the humerus and pain increases if

diag - Observe treat as fracture - Joint will  
in prob. have alteration of shape of head of  
bone - or interstitial abscess - save by this proc  
may recover without a bad result. Impact  
fracture may occur by fall on humerus here  
have no deformity except shoulder is full -  
by crushing of fibres of deltoid muscle. Diag


Short of humerus or comp - with found  
no aspirates - deep seated pain. Treat Best  
to allow arm to heal in shortened position as  
effort to keep injured produces too much irritation  
anasth Antisp - Simple wound in which

head of bone looking up - Old surgical procedure  
in every case Antisp - not so - put away  
Spirilla Keep arm steady elbow wound

Suppuration - have plank a deposit bare  
pulse point - passive motion - leg upon  
at end 8 weeks on - If can't walk comp  
sep of head from Epiph - Young subject

Reag - very difficult from force direct  
Ind - Should be around no aspiration  
Diag - one comp - no displace. in front  
of shoulder a prominence, elbow  
drawn back bring elbow forward

and prominence disappear. Just great  
diff to procure union as cartilage won't  
unite - then an angular splint to stop Os  
of head of bone inward

 padded  
pass band over shoulder and under elbow  
get well generally from 6 to 10 weeks

Anatomical Neck - Can distinguish from  
other fracture of bone - Treat Same -

Surgical - Neck. Simple fract - of neck  
above insertion of latissimus dorsi. and P. H. -

upper frag is turned out - tumor axilla -  
elapsing, should flattened, shortened arm -

te. Ind - to bring upper frag down and  
Reduct - lower vice versa - Bag - often

Compound with one above and D. H. - and  
not in surgical neck - Having to contend

with rotator muscles and abductor -  
Dessault app - most frequently applied

and 3 short splints - and common pad  
in axilla - reverser pad when lower

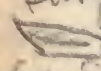
frag - out - don't use pad - since the  
pad is a moveable point slipping

backward & forward - accord to  
Dessault - pad und - a cross

string on should - the pad coming  
down only  $\frac{2}{3}$  - way elbow will constantly

move - Use L ang splint  
with upper end pad - try - to get

from suppur in axilla and no  
rotator. When fract in shaft - plane

surge with D. and 3 short sp - 2  
 one for inside and 1 for out - and

6 or 8 yards 2 1/2 in wide - begin at  
flex draw across



in reaching elbow lean out - go up above  
seat of fract. - 1<sup>st</sup> ~~thing~~ <sup>thing</sup> this - 2<sup>nd</sup> put on  
short splint - pad each end of splint  
to prevent excoriation - ~~then~~ <sup>then</sup> attach  
short splint to arm - don't let condyle  
press upon pad but cushion - 2<sup>nd</sup> roller  
to attach rectangular splint - now put  
thing from 6 to 8 inches for bone to unite look  
after 4<sup>th</sup> week starch band is worn Splint  
unless compound fract - don't use wire

Middle Shaft - Drag - By bending ends  
on each other - An drag not be acting if  
occurring in mutations for a man - use same  
drumming - Roller band & short splint &  
splint - guard poog - when aren't flex  
with out moving 4 week have partige  
or complete anchylosis - after 2nd week  
passive motion repeat every week -

Lower third above condyles Scap.  
sometimes mistake for luxation, if  
so will have deformity - tumor of  
tumor behind short of forearm and  
luxation - put knee and take hold  
of arm and forearm bend over knee  
forearm, make extension and  
count and if part will set in  
if lux - ~~app~~ do creep station -  
rotating arm have creep in front  
the above splint front do - pass  
roller two feet in splint - place  
splint under and above, if then  
much disposition to action of  
triceps use back splint - chiefly  
passive motion early



Fracture Cond Foret direct <sup>mt</sup>  
solution may grow up and out in  
snapping off of one of condyle  
of both rare accident. Drag  
great pain take hold of bone and  
if cond broken cut more it. if  
swelling has taken place, cant tilt & last  
apply cold application keep down  
inflam - put on simple rect ang  
splint - treat as fract - if limb  
can set it - be careful in if say  
if both cond and humerus are  
broken at thick take head joint and  
squeeze in Rec and have crep  
and pain, flex and rotate arm  
and pray with move. and to left.  
Rec out of fissure and then  
compress condyle to prevent grow  
back rect ang splint, great dis  
to Ankylosis, change angle of  
splint - gradually so as to get  
arm straight in 4 weeks and  
then back by expectation of 8th week  
to get to a right ang - r

Carpal Bones & Simple fracture  
very rare Compound often happens - you  
have stiffness of joint in Simp only Sometimes  
be retained & comp rarely - treat -  
Active antiphlogos etc. simple Splint  
2<sup>nd</sup> week passive motion lateral  
and flexion and extension Curved  
splint much better to retain in situ  
the portions

*Dangers of operation*—Wound of vascular lining of membrane giving rise to effusion of blood; injury to the chorda tympani, and to the malleus.

*Mode of operation*.—A simple puncture by trocar, Astley Cooper's operation; by caustic, Richerand's; by drilling with a quadrangular perforator, Buchanan's, Himle's, &c.

#### OBSTRUCTION OF EUSTACHIAN TUBE.

*Forms*.—1. Partial. 2. Complete.

*Causes*.—Inflammation, acute and chronic; extension from the throat of such diseases, as scarlatina, variola, syphilis, cynanche tonsillaris, enlarged tonsils, descent of nasal polypi.

*Symptoms*.

*Diagnosis*.—May be confounded with deafness from other causes.

*Prognosis*.—Favorable.

*Treatment*.—By reducing existing inflammation—by constitutional treatment, if the cause requires it—by dilatation, if stricture exists in the course of the tube.

#### MODE OF CATHETERIZING EUSTACHIAN TUBE.

*Instruments used*.

*History of the operation*.—First performed on himself by Guyot, a Post Master at Versailles, in the year 1700, revived by Itard, and materially improved.

*Indications for its use*.—1. An important means of diagnosis. 2. To remove mucous or blood from tympanic cavity or from eustachian tube. 3. To dilate a stricture. 4. To stimulate the nervous system of the ear.

*Dangers of the operation*.—1. Inflammation of throat, and catarrh of the tympanum. 2. Emphysema. 3. Rupture of membrana tympani. 4. Strangulation.

*Mode of passing instrument*.

*Air press*.

#### NERVOUS DISEASES OF THE EAR.

Arranged under two heads. 1. Disordered function of the acoustic nerve. 2. Disordered functions of the nerves of common sensibility and motion, or the tympanic nerves.

1. Disordered function of the acoustic nerve.

*Division*.—1. The excited or acute state. 2. The torpid or chronic state.

##### ACUTE STATE.

*Causes*.—From local affection—sometimes sympathetic with general health, or some disorder of brain, stomach, bowels, or uterus—from over use of organ.

*Symptoms*.—Tinnitus aurium, deafness, an annoying pulsation synchronous with the heart.

*Diagnosis*.

*Prognosis*.

*Treatment*.—The removal of the cause, administration of tonics, alteratives, counter irritants.



## I. TORPID FUNCTIONAL DERANGEMENT.

*Age most liable.*—Old age.

*Causes.*—Over excitement of organ; severe constitutional disorder, &c.

*Symptoms.*

*Diagnosis.*—May be assisted by the absence of disease in the external and middle ear, by a want of perception of sounds when the cranial bones are thrown into vibration by a watch.

*Prognosis.*—Unfavorable.

*Treatment.*—Attention must first be paid to general health; various nervous excitants, as electricity and galvanism, may be tried. Application of ætherous vapour is recommended by Itard and Krahmer.

*Mode of introducing vapour.*

## II. FUNCTIONAL DERANGEMENT OF TYMPANIC NERVES.

*Synonym.*—Otalgia or ear ache.

*Causes.*—The common causes of neuralgia; enlarged tonsils; any local disease in the vicinity; direct injury in sounding the membrana tympani; or eustachian tube.

*Symptoms.*

*Diagnosis.*

*Prognosis.*—Favorable.

*Treatment.*

## FORMS OF DEAFNESS.

## DEAFNESS.

*Synonymes.*—Surditas, cophosis.

*Degrees.*—1. That marked by impossibility of hearing at all, usually congenital and a cause of dumbness. 2. By power of distinguishing certain sounds, as the pronunciation of the vowels, whistling, &c.

*Causes.*—Mostly congenital, sometimes acquired. The congenital cases most frequently depend on morbid changes in the soft parts, in a small proportion of cases upon an anomaly in the structure of the solid parts.

*Diagnosis.*

*Prognosis.*—Unfavorable in congenital cases; more favorable in acquired cases.

*Treatment.*

## HARDNESS OF HEARING.

*Synonym.*—Dysœcia.

*Definition.*—Where the faculty of hearing is so diminished that articulate sounds cannot be heard without the assistance of some particular apparatus.

*Degrees.*—1. Where the individual cannot hear a distant noise, and especially *high tones*, but can perceive articulated sounds when the voice is a good deal raised. 2. He hears and distinguishes both high and low tones, and also words, but only when the voice is somewhat raised.

*Causes.*—Either some alteration in that part of the organ which serves

One small hole on bottom to let water  
drain out, in Compound remaining  
quiet for two weeks ~~or~~ <sup>from 8 to 10</sup>  
<sup>cracks remain under treat</sup>  
Metacarpal. Injured by horse  
contusion, transverse or oblique -  
generally have compound fracture - may  
have the palmar arches may be wound  
have in this case, Transverse Injuries  
Diagnosis is very simple. Treat  
to have comp and Roller Band  
for external disp - for Int  
different. Set the part here and  
putting compress in palm to pull  
disp and then binding the hand  
down on splint - while palmar  
arches are wounded, tie up air  
if can't control - by pressure with  
compress on radial and ulnar art  
Treat always as simple fracture, never  
open integ - to convert - in Compound  
in Comp - Close wound and treat

Fingers - Treat - Take narrow  
roller and encase and reverse turns -  
have irregular Comp - better use  
stickng plaster two rolls by spiral  
turns one beginning at end of  
finger and other at dist then  
a narrow splint, and 3 rolls  
of adhesive plaster -  
Thumb. Always put splint on  
back of thumb -



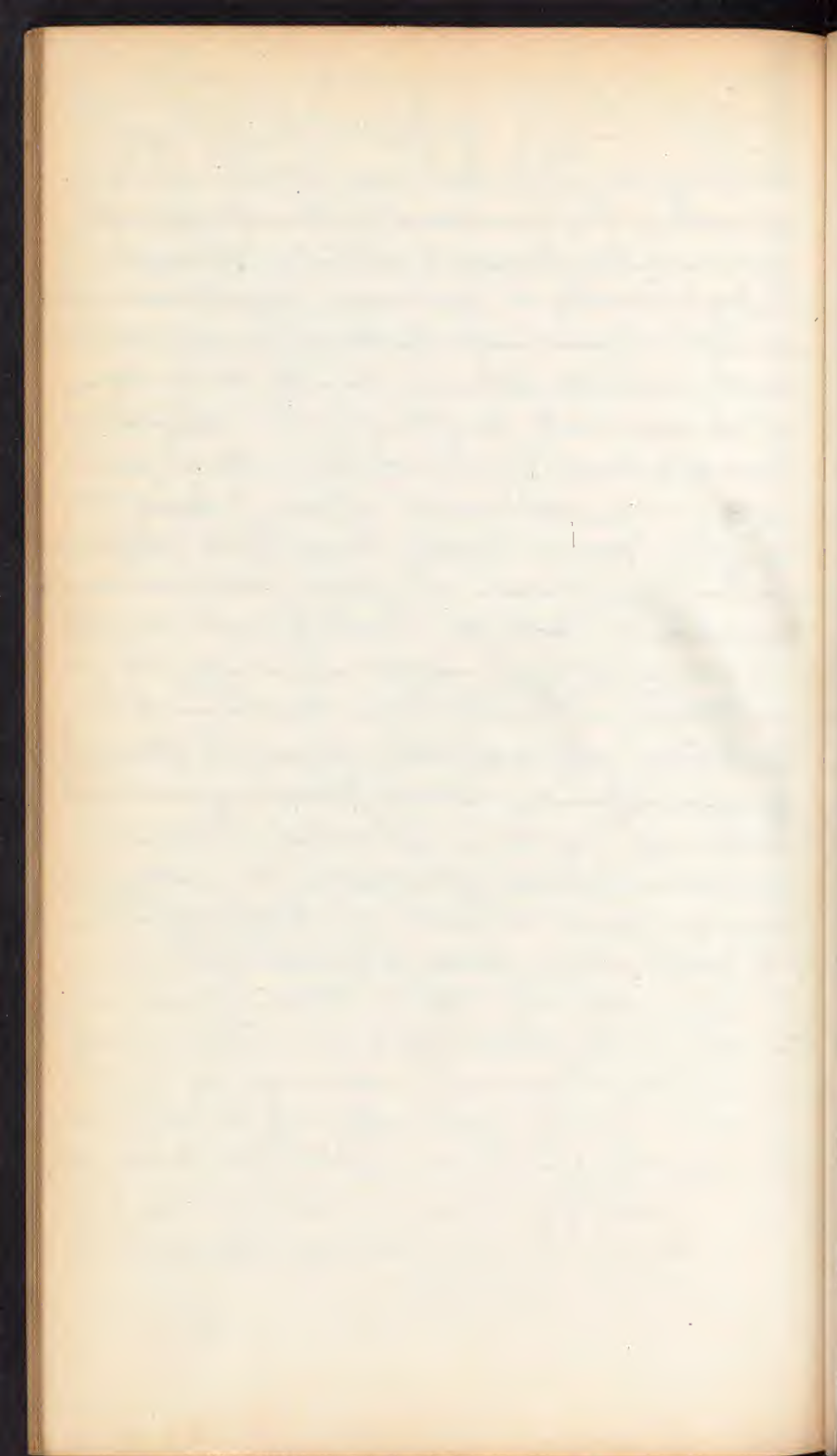
## Sacrum From Direct force

May have displace - If fact involve the  
cavity. find him having flexed thigh  
and leg - paralysis sometimes complete  
intense pain on slight movement, with movement  
of muscles as crepitus - press - and pain - some  
top paralysis of bladder - Prognosis - <sup>and rectum</sup> - ~~infer~~

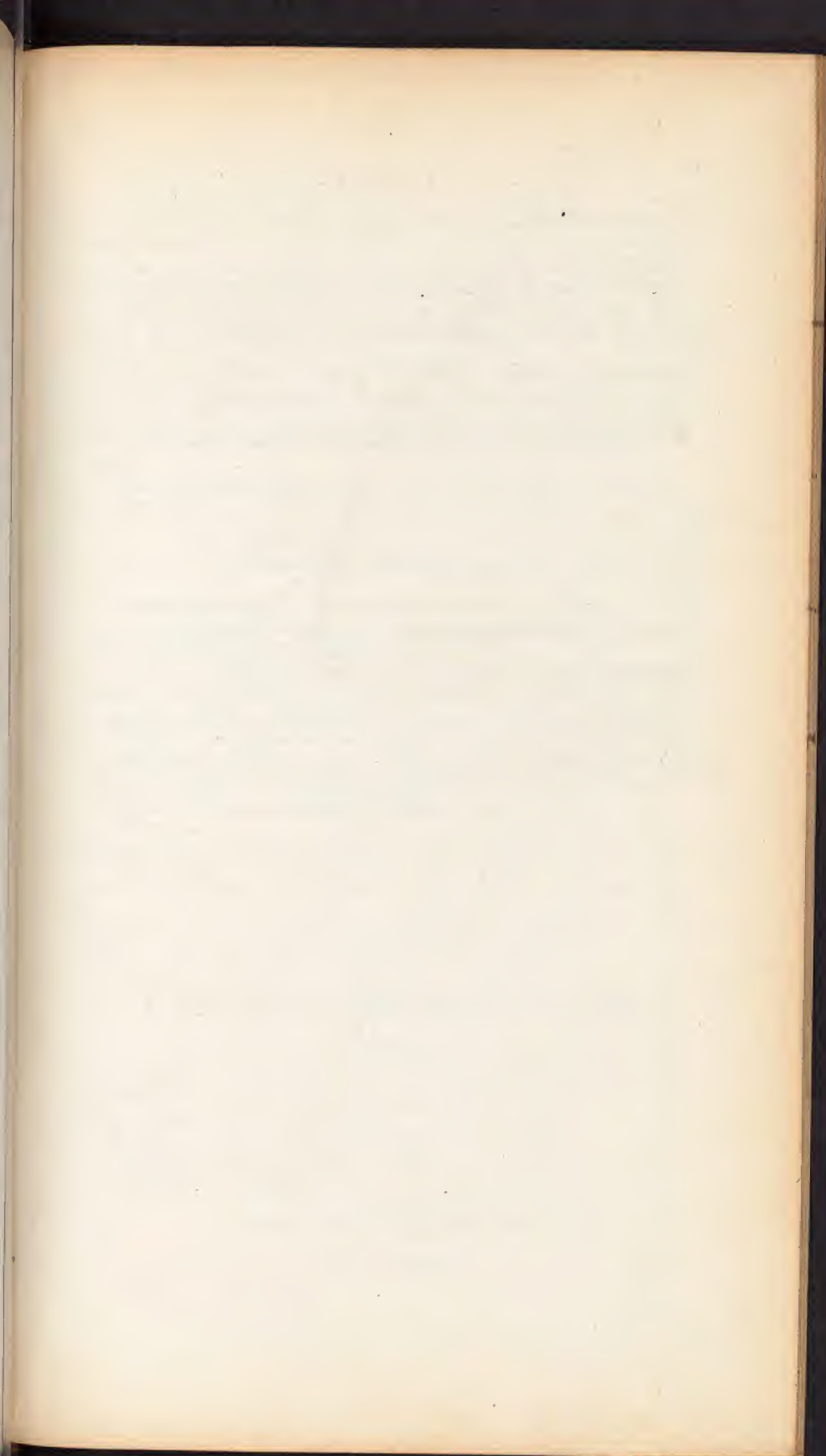
This paralysis may remain or may remain  
for 8 weeks ten just as long as the sacral nerves  
are compressed by bone may have abscess -  
Treat. No use to replace, put parts at rest  
surround the pelvis broad roller to knees  
and put together and put down cat in  
double incline plane keep on back for 10 days  
then on back - and so on for 8 to 10 weeks  
has no pain - makes no water and  
rectum - Always use catheter - 2 daily  
from 1st dressing, after 3 or 4 days evain the  
rectum by syringe and common water - If  
water remain draw out with syringe - Break  
up mass with finger or spoon -  
Os Coccygis - Force direct or indirect  
in perforation - Diagnosis more or less hyp  
generally upwards may be out or lateral  
pain intense - as every motion moves fear -  
pass finger up rect - and rect - use same  
dressing as in preceding part - an o  
the knees and ankles - to keep frog in situ  
don't pile up rectum with charcoal  
Keep finger up ass for 56 hours

Hip by direct force - generally  
 may be ~~accomplished~~ <sup>worked across</sup>  
 body - easy - displace and creep  
 trudging - take hold of costa direct  
 at once - Treat same as the preceding  
 Sansons - Fract. - Small blunt  
 body breaks a small square  
 piece of bone and abdominal mass  
 pull out of place as to costa  
 of Illion - to contend with displace  
 and resist of muscles - Scrap - is  
 easy - push bag down after  
 flexing body apply handkerchief  
 under perineum - when fracture  
 is comp same treat -

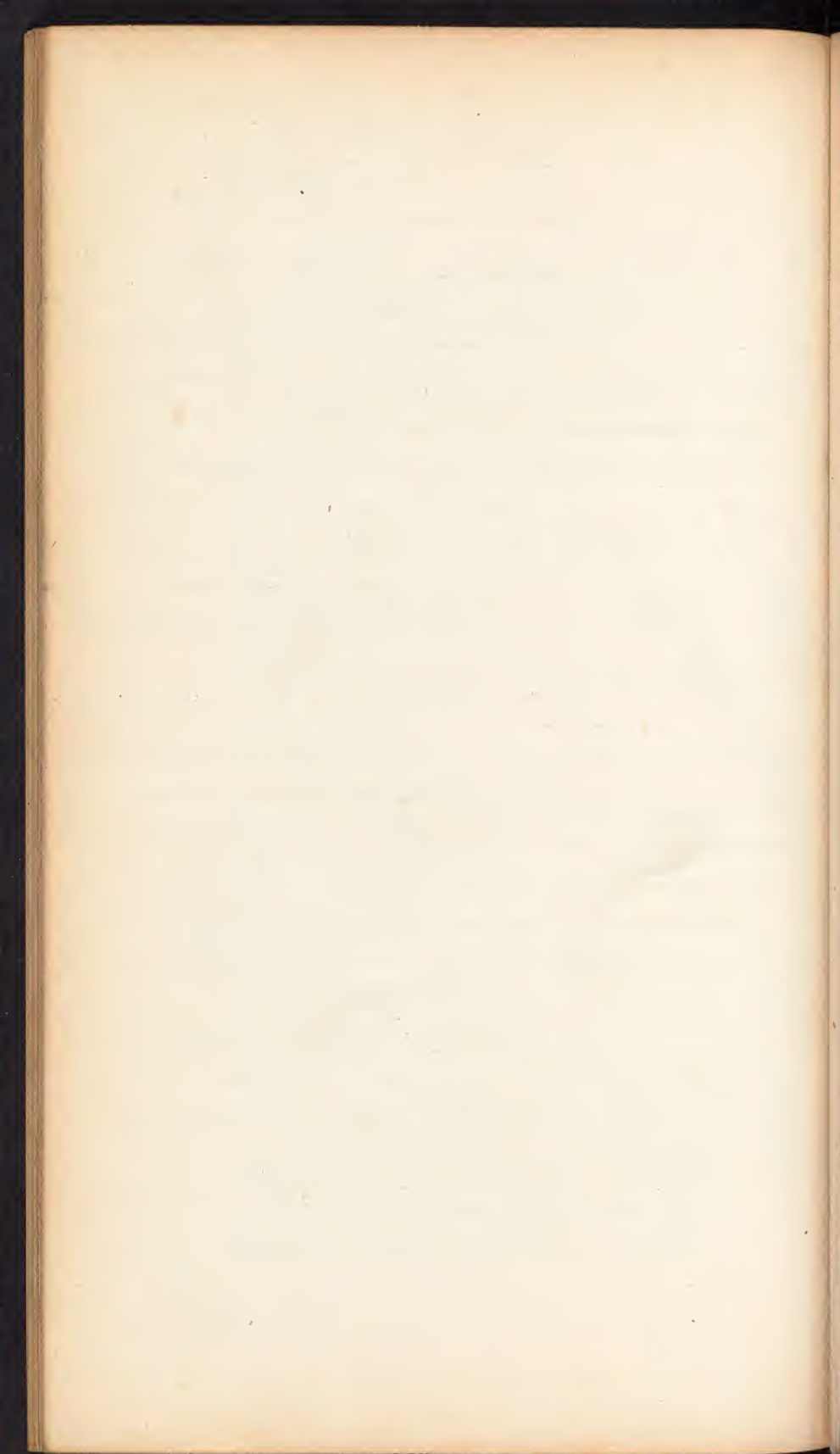
Fracture Ant Sup Spinal  
process, Muscular contract-  
ure - leg useless, Diag Deposits  
where should have prominence and  
tumor in groin. Treat - Broad  
Roller - flex thigh at an acute  
angle for three weeks - and  
not so strong as before











as a conductor for the vibration of sound; or also an increased sensibility of the acoustic nerve.

Alterations of the conductive parts are of two kinds; 1. A total obliteration of the meatus auditorius externus; its imperforation, or complete absence. 2. A diseased condition of the tympanum, as inflammation of its lining membrane; caries of its parieties; and collections of blood, pus, or other fluid in its cavity.

*Diagnosis.*—Of some alteration of conducting parts, may be assisted by the patient only hearing when solid bodies are placed between his teeth, while his dull perception of sound does not appear to be less when the ear is covered. Of some disease of tympanum, by the history, or by marks of previous inflammation.

*Prognosis.*—Unfavorable.

*Treatment.*

#### ALTERATION OR DIMINUTION OF HEARING.

*Synonym.*—Paracusis.

*Definition.*—Where the faculty of hearing articulated sounds in the natural way is imperfect for want of precision.

*Causes.*—1. Alterations of the membrana tympani from congenital malformation, or from thickening, ossification, perforation, or laceration. 2. The lodgment of fluid in the tympanic cavity, as in some cases of obstruction of the eustachian tube, as in some new born infants. 3. Alterations in the membrane of the fenestra rotunda, such as its imperfect form, its erroneous situation, its thickened state, &c. 4. Depression, or excitement of nervous influence, the natural consequence of the patient's sensibility.

*Diagnosis.*

*Prognosis.*

*Treatment.*

## V. INJURIES AND DISEASES OF THE NOSE.

### WOUNDS.

*Varieties.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

### FRACTURES OF THE OSSA NASI.

See "Fractures."

EPISTAXIS.

*Definition.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

ACUTE INFLAMMATION OF THE SCHNEIDERIAN MEMBRANE.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

CHRONIC INFLAMMATION WITH THICKENING OF THE SCHNEIDERIAN MEMBRANE.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

ABSCESS.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

CEDEMA OF THE SCHNEIDERIAN MEMBRANE.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

OZENA.

*Definition.*

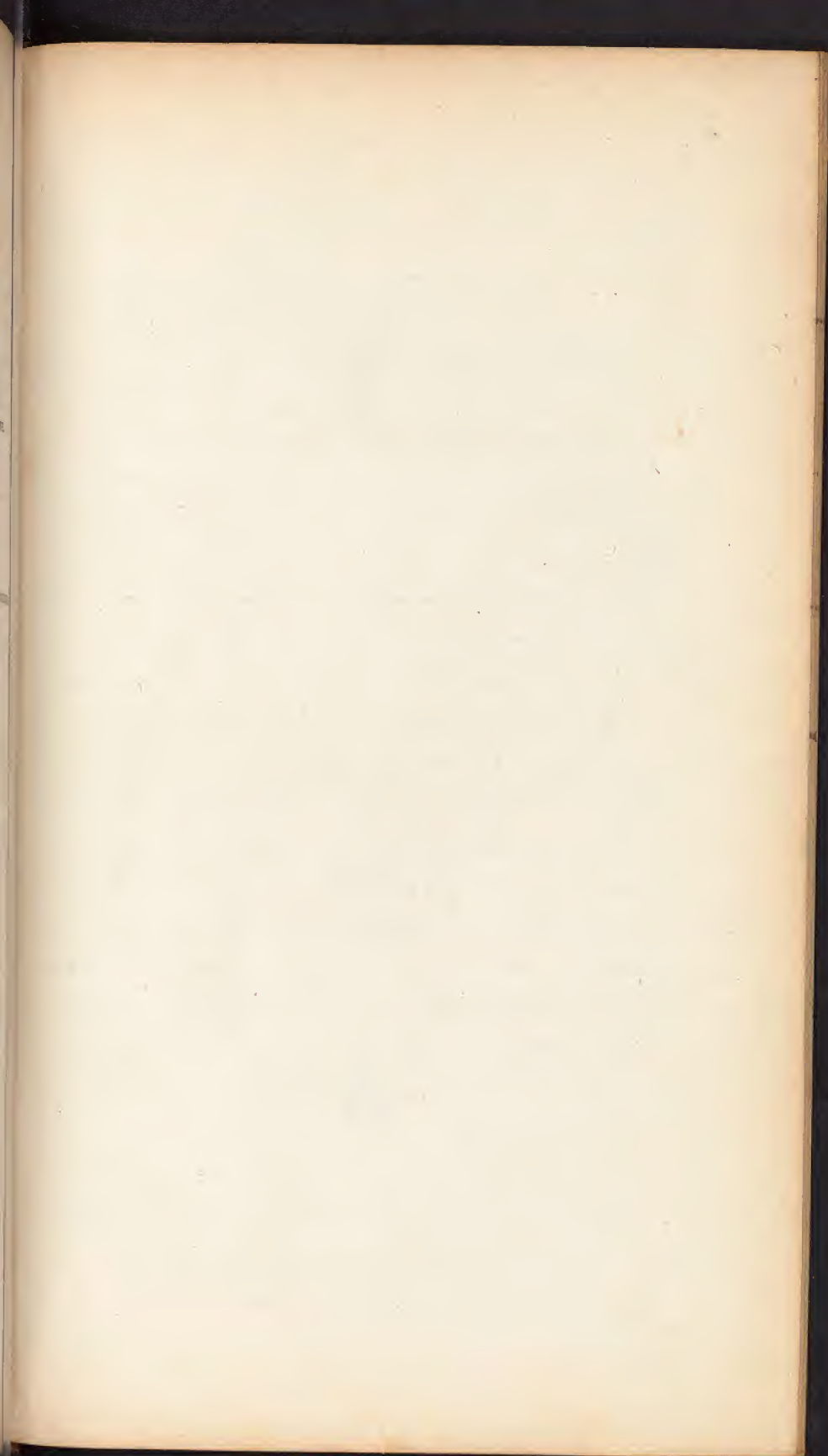
*Causes.*

*Symptoms.*

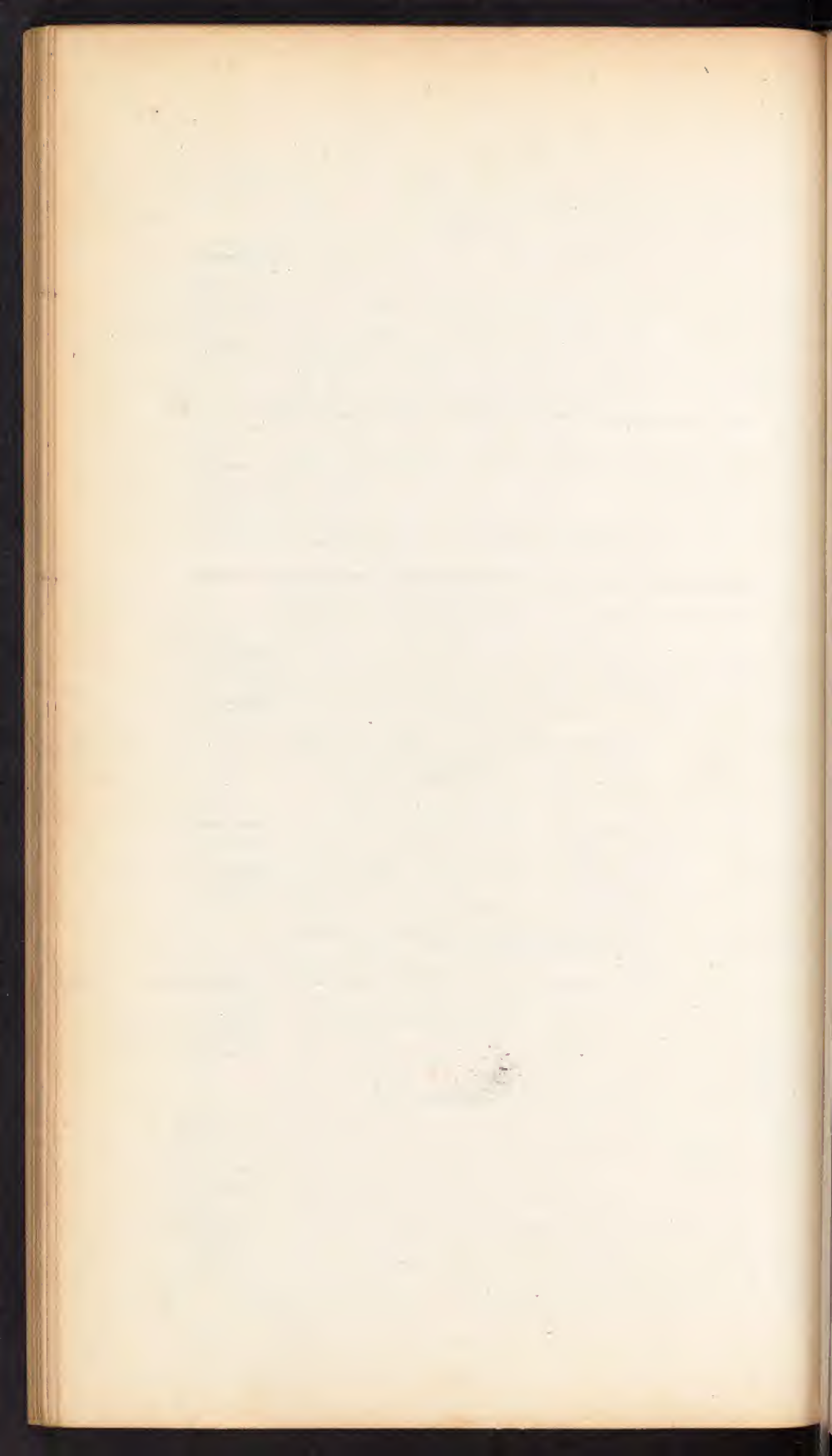
*Diagnosis.*

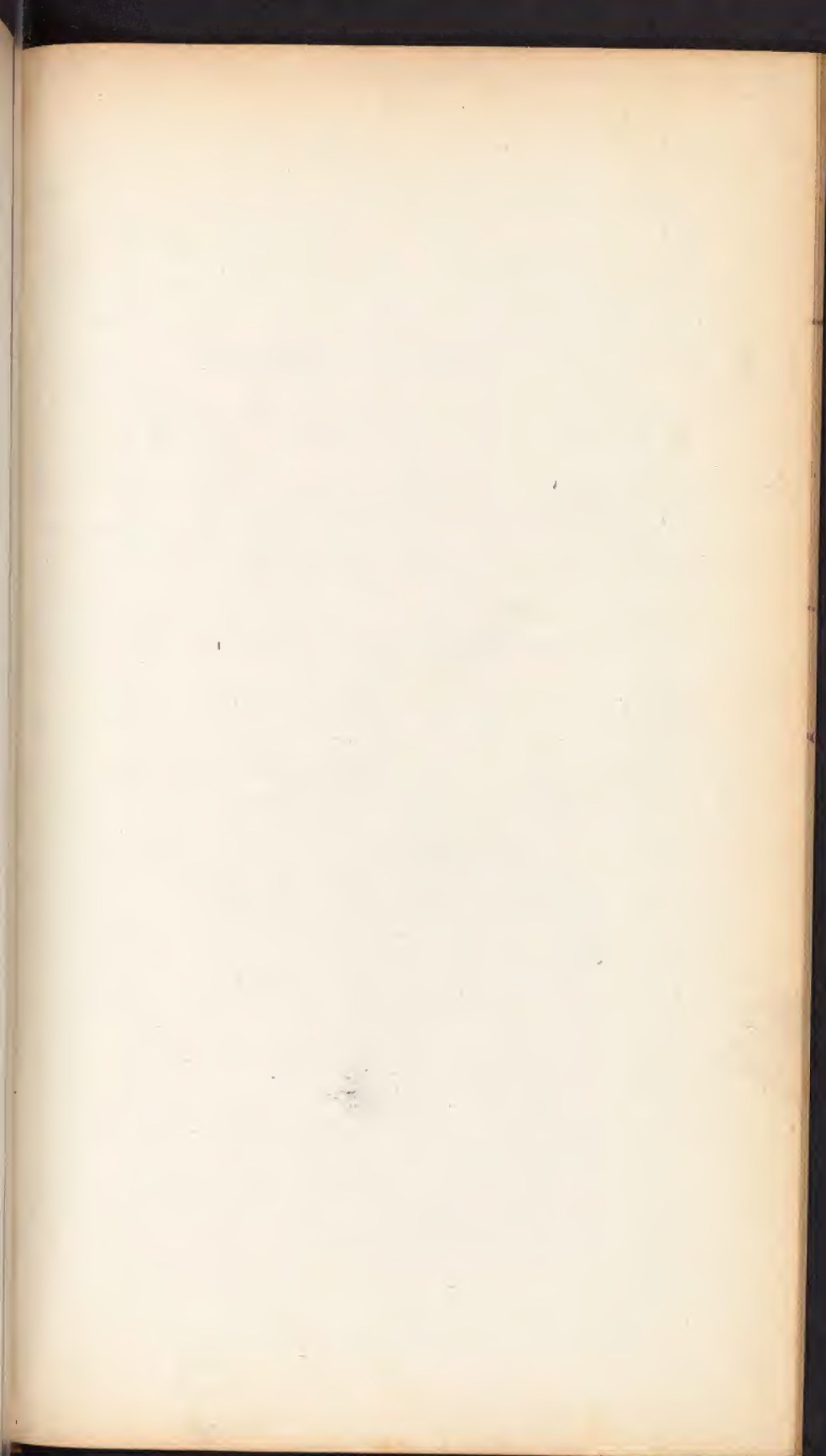
*Prognosis.*

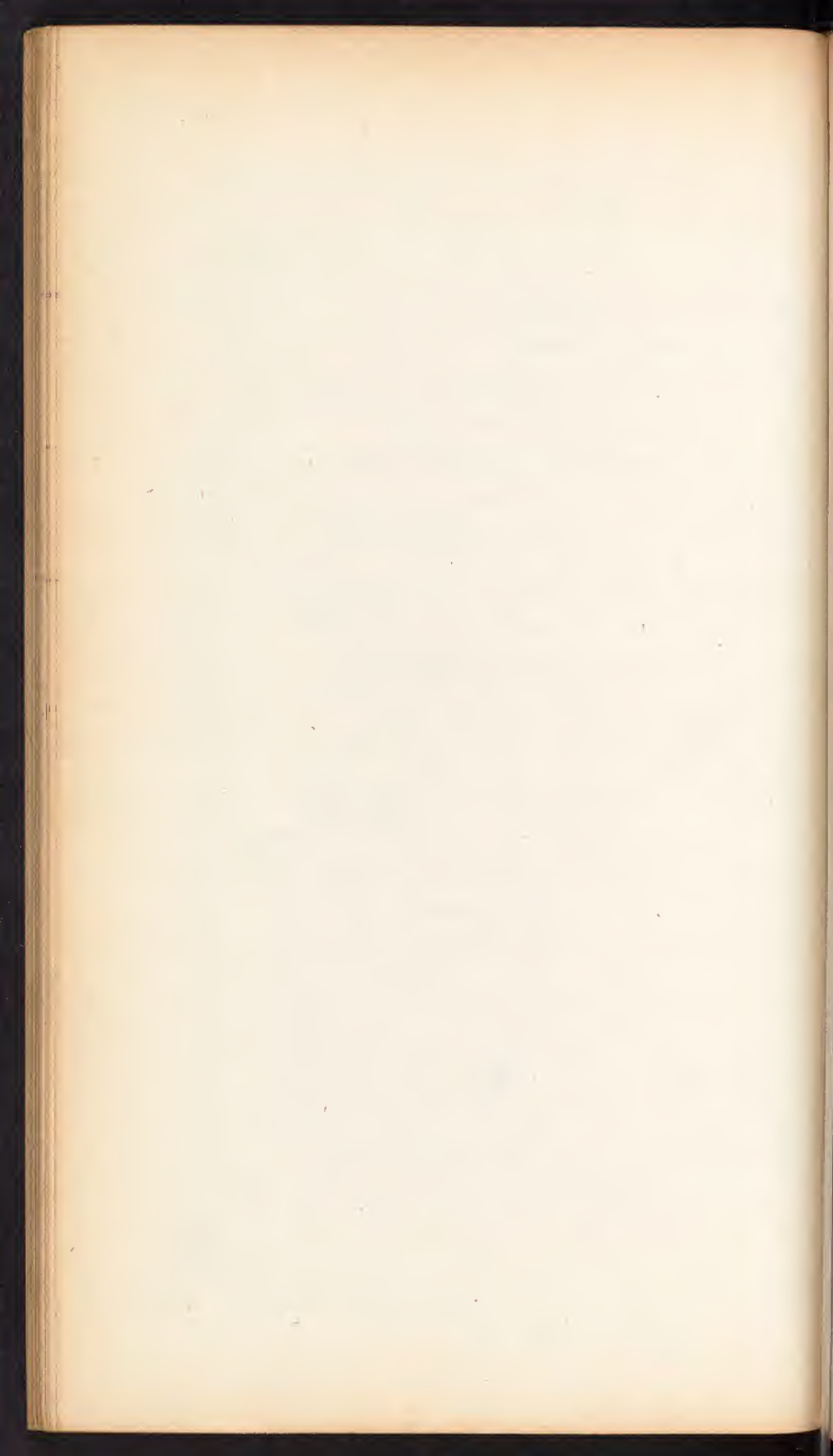
*Treatment.*

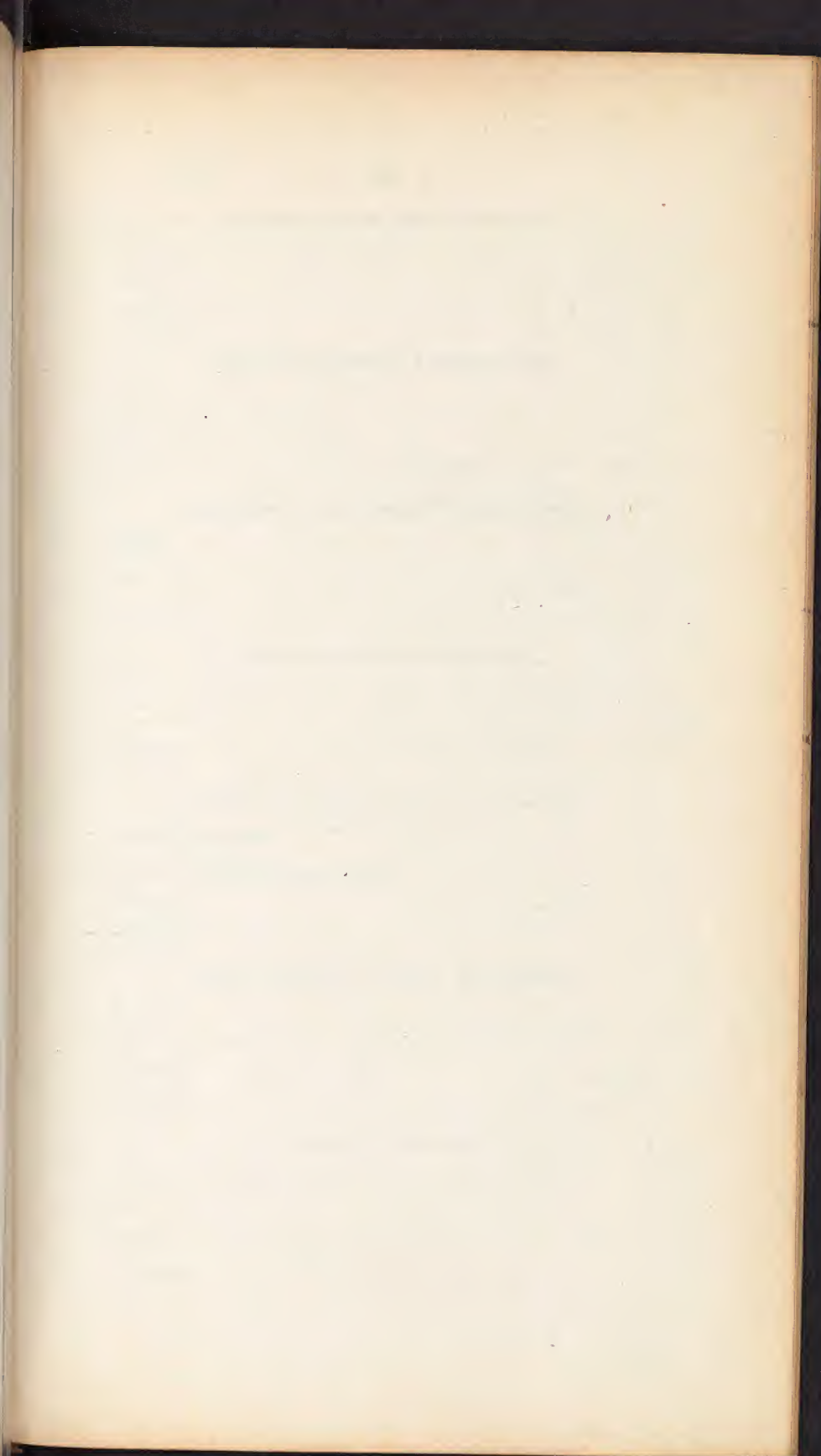




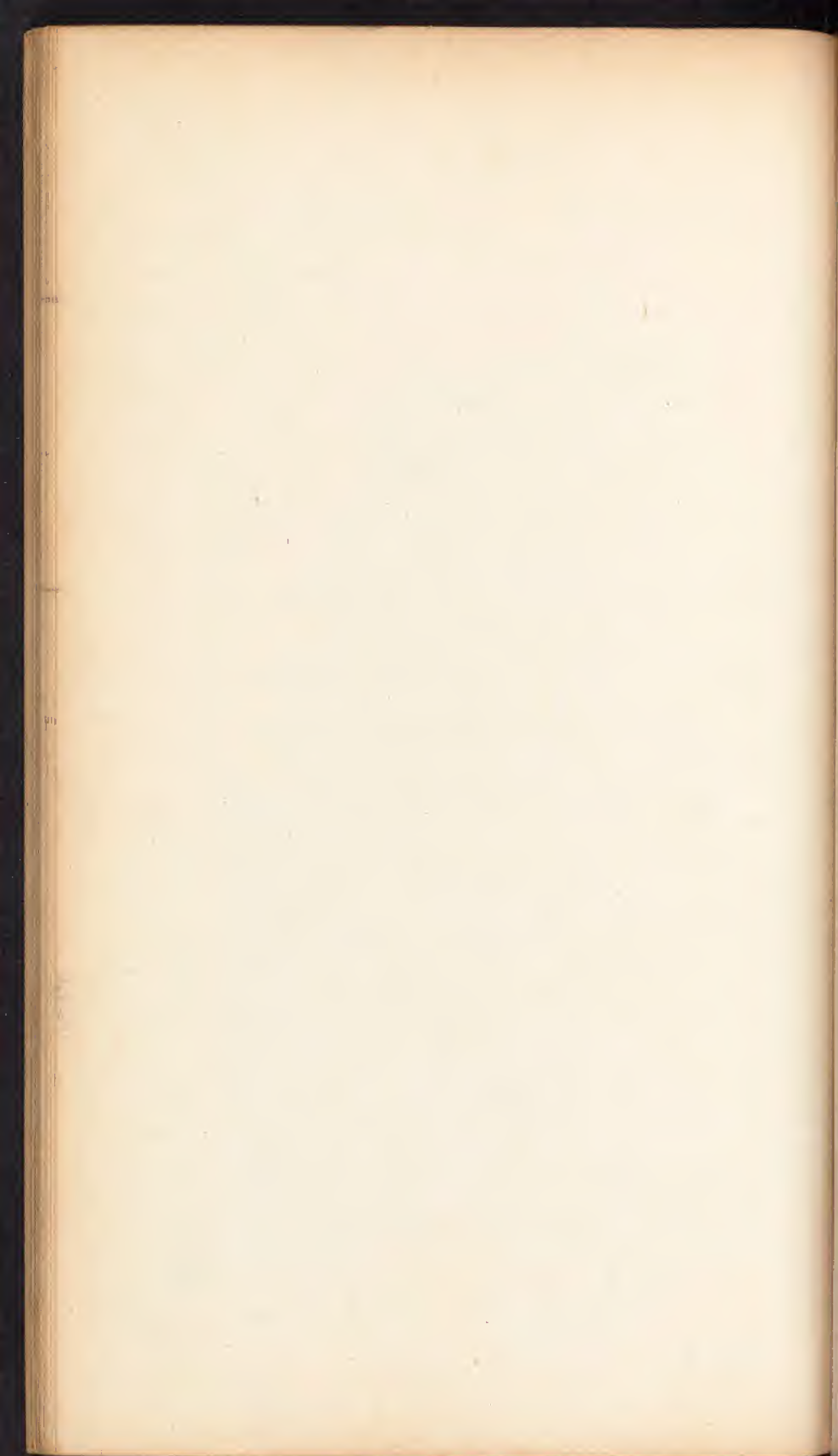












ULCERATION OF THE NASAL CARTILAGES.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

CARIES AND NECROSIS OF THE NASAL BONES.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

ENLARGEMENT OF THE INFERIOR TURBINATED BONE.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

DEVIATION OF THE SEPTUM NARIUM.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

LODGE MENT OF FOREIGN BODIES IN THE NOSTRILS.

*Nature of these bodies.*

*Mode of introduction.*

*Symptoms produced by their presence.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

FIBROUS TUMORS AND CYSTS OF THE NOSTRILS.

*Definition.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

POLYPUS OF THE NOSE.

*Definition.*

*Location.*

*Form.*

*Number.*

*Size.*

*Consistence.*

*Color.*

*Termination.*

*Division.*—1. Nonmalignant. 2. Malignant.

1. Or nonmalignant.

*a.* The vesicular.

*b.* The gelatinous.

*c.* The fleshy.

*d.* The fibrous.

*e.* The hard.

2. Or malignant.

*a.* The cancerous.

*b.* The medullary or hæmatoid.

*c.* The schirrous.

*Causes.*—Of simple polypus.

*General Symptoms.*

*Special Symptoms.*—Each form is characterized by peculiar symptoms. State what these are.

*Causes of malignant polypus.*

*Special symptoms in each variety.*

*Diagnosis of polypus tumour.*—Has been confounded with a great variety of diseases, viz. enlarged turbinated bone; inclination of the septum; disease of the nasal bones; œdema of the mucous membrane; chronic inflammation; abscesses; ozæna; fibrous tumours of the nostrils; polypus of the antrum; hernia cerebri; foreign bodies in the nostril.

*Prognosis.*—Depends on the form of polypus.

*Treatment.*—Varies in the different species of polypus.

#### EXTERNAL POLYPUS.

*Definition.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

#### LIPOMA.

*Definition.*

*Causes.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

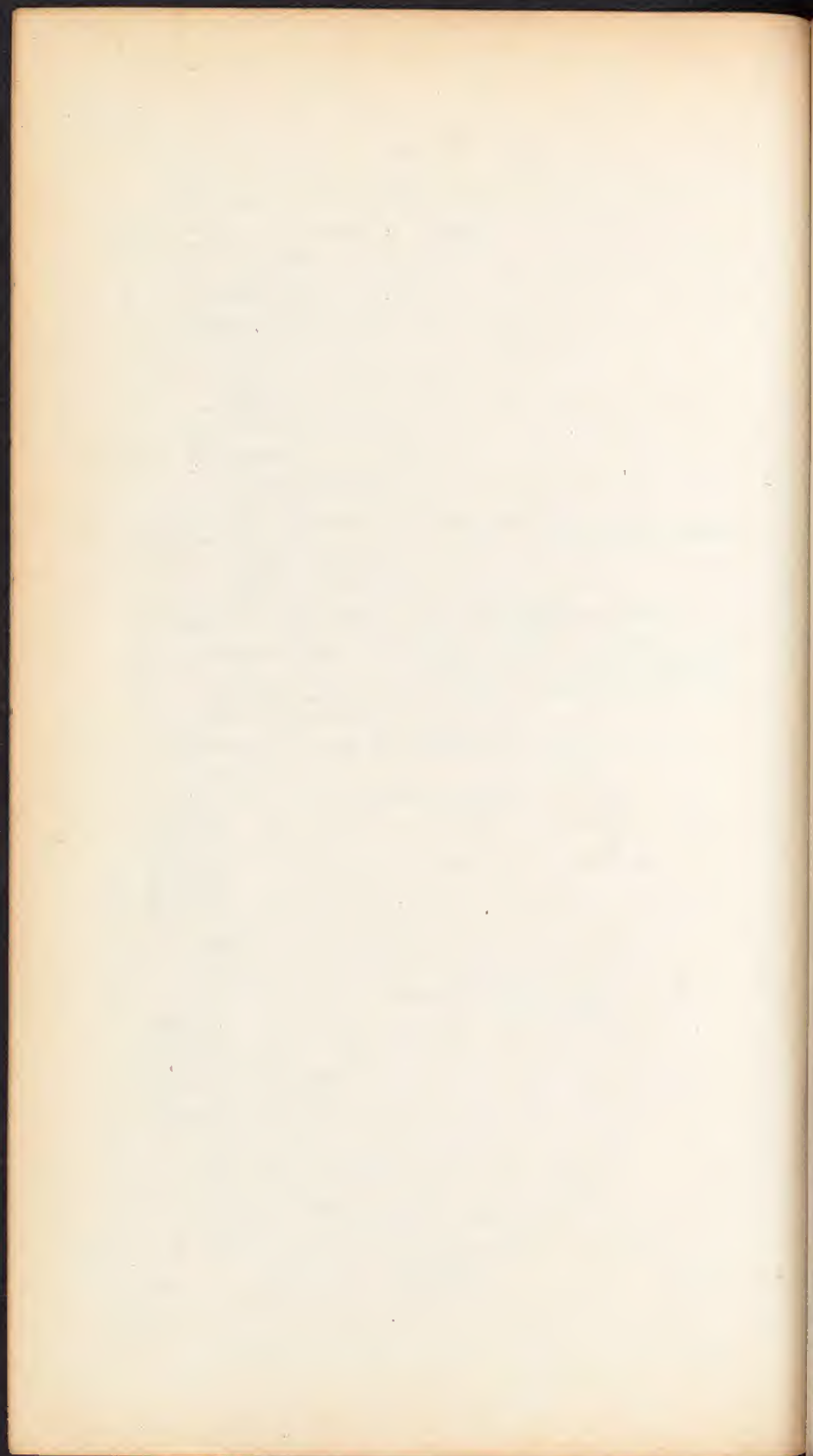
*ulceration  
of nose  
submucous*

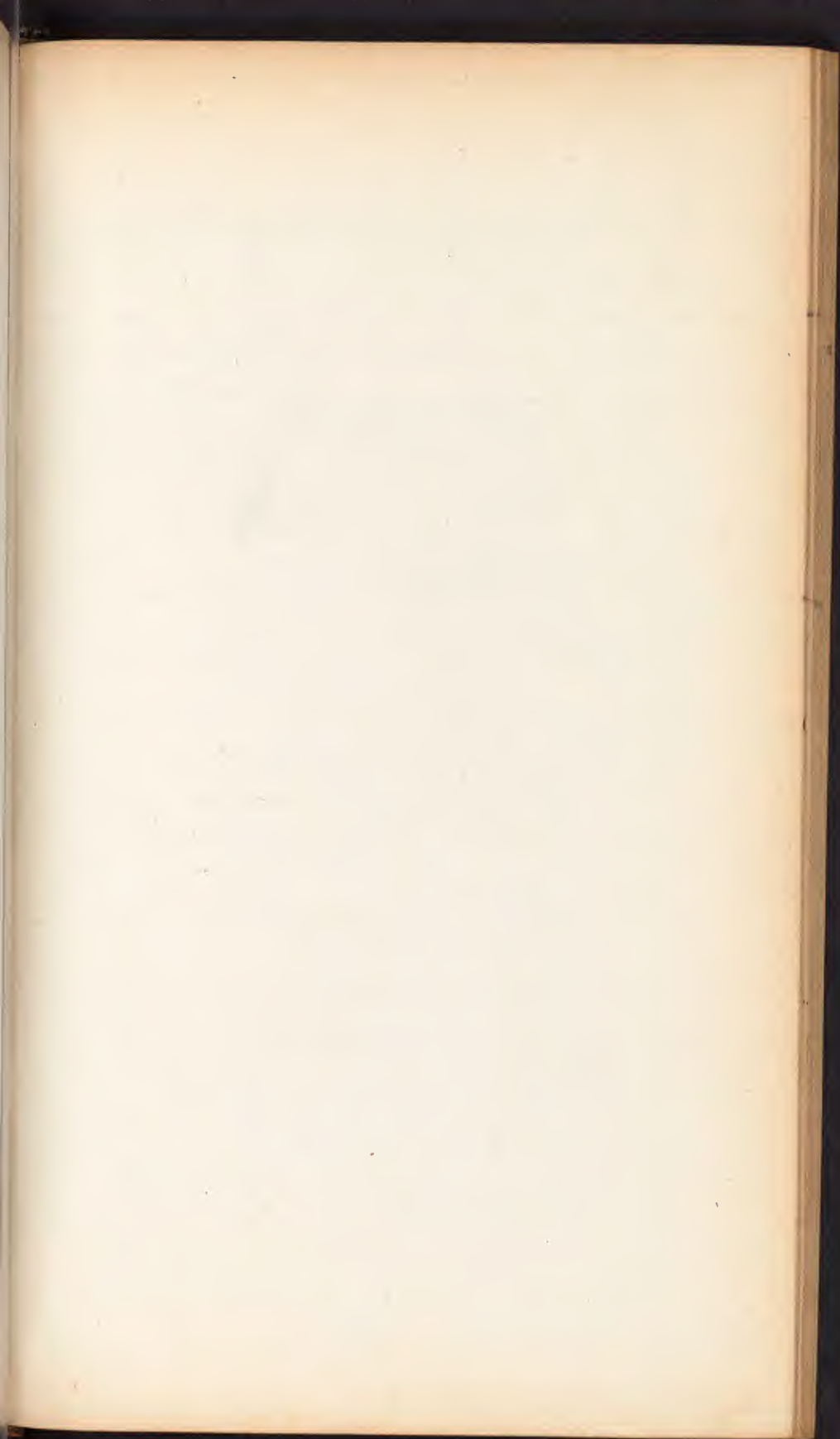
#### LOSS OF NOSTRIL OR THE ENTIRE NOSE.

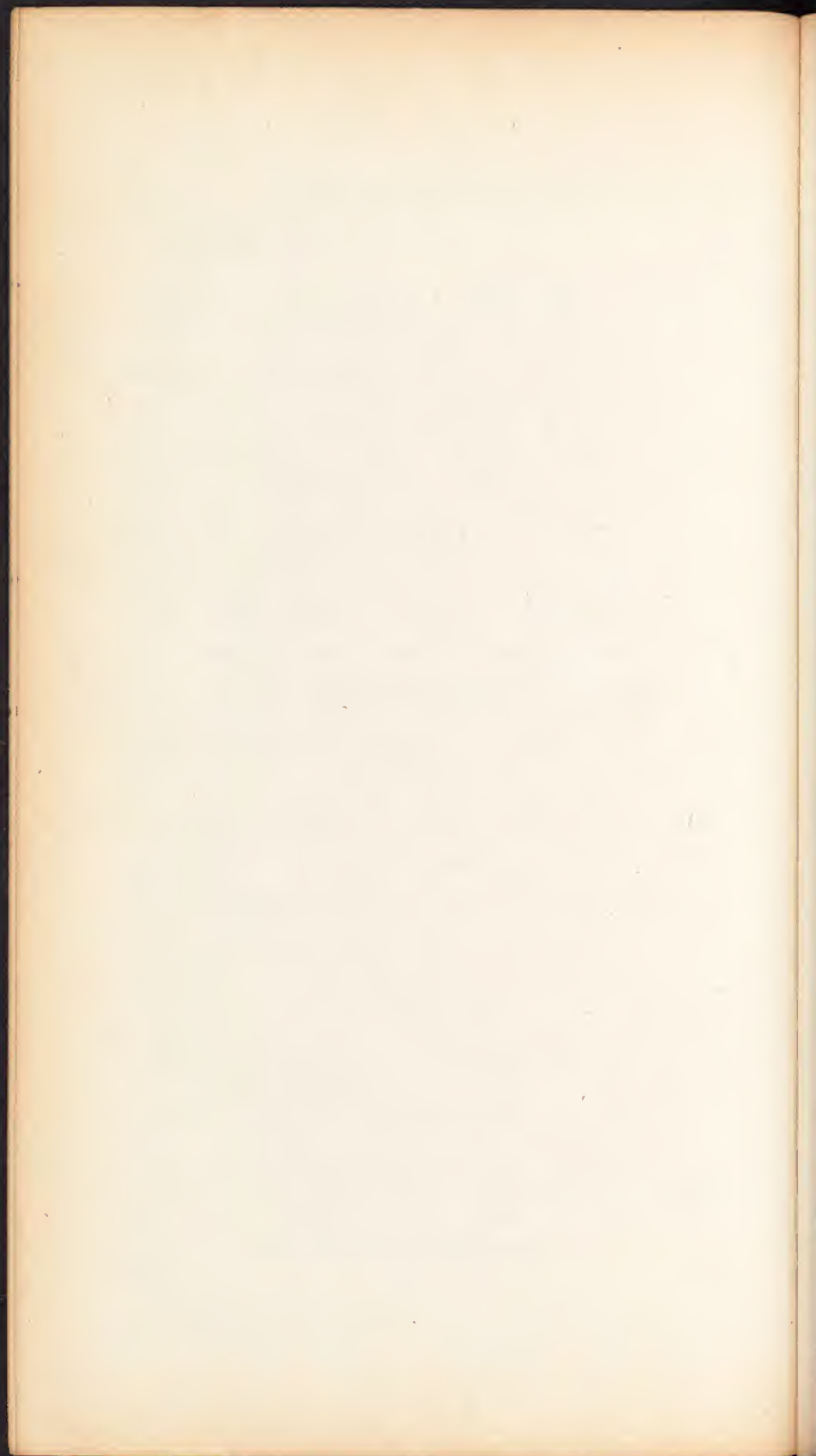
See "Rhinoplastic operations."











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1. Acc. Bolence - Neuralgia of parts of hand & arm
2. Injury to nerve from cut or blow, or from general ill health. or from Paracanthias cut nerve - other cases palliative or cut the pericranium & release the pressure

In sero cystic tumors, shell to give  
definitely speak from the inside

## VI. INJURIES AND DISEASES OF THE CHEEKS.

### WOUNDS.

Varieties.  
Parts liable to be involved.  
Symptoms.  
Prognosis.  
Treatment.

### TIC DOLEREUX

1. Definition.  
2. Causes.  
Symptoms.  
Prognosis.  
Treatment.

### SPASMODIC ACTION OF THE MUSCLES

Causes.  
Symptoms.  
Prognosis.  
Treatment.

*From change of life in women & from  
irritation of nerves*  
*paralytic strychnia &  
acupuncture*

### PARALYSIS OF THE CHEEK.

Varieties.  
Causes.  
Symptoms.  
Prognosis.

Treatment.—1. Constitutional. 2. Local.

1. Only required when the defect depends on a constitutional cause, and must be modified by the nature of this cause.

2. Or local.

a. Blisters.

b. Application of strychnia or veratria.

c. Electricity.

d. Acupuncture.

e. Excision of a portion of the cheek.

f. Section of the antagonising muscles. (Dieffenbach.)

### TUMOURS OF THE CHEEK.

Varieties.  
Mode of operating in each.

### ULCERS OF THE CHEEK.

Division.—External and internal.

Varieties.

Causes.

Symptoms.

Prognosis.

Treatment.

MACULÆ.

*Varieties.*

*Causes.*

*Symptoms.*

*Prognosis.*

*Treatment.*

LOSS OF CHEEK.

See "Chieloplastic operations."

---

VII. INJURIES AND DISEASES OF THE JAWS.

FRACTURES.

See "Fractures."

LUXATIONS.

See "Luxations."

WOUNDS.

*Varieties.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

INFLAMMATION OF THE LINING MEMBRANE OF THE ANTRUM.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

ABSCESS OF THE ANTRUM.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

ULCERATION OF LINING MEMBRANE.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*



Macula - Compression by  
Collodion & gum Spots often  
cures if small cut out if  
large Tattooing with Carminate  
of Lead.

In Compi<sup>d</sup> - or crushed bones of  
upper jaw Don't pick away the  
fragments. let lower jaw become  
a splint

Infl<sup>n</sup> of L. M. of Anterior Kneecap  
pains & discharge of pus Antiphlog<sup>is</sup>

In abscess open outside of upper jaw  
below the Superior Maxillary foramen with  
Iodo-car. & leave open several days to  
draw out pus.

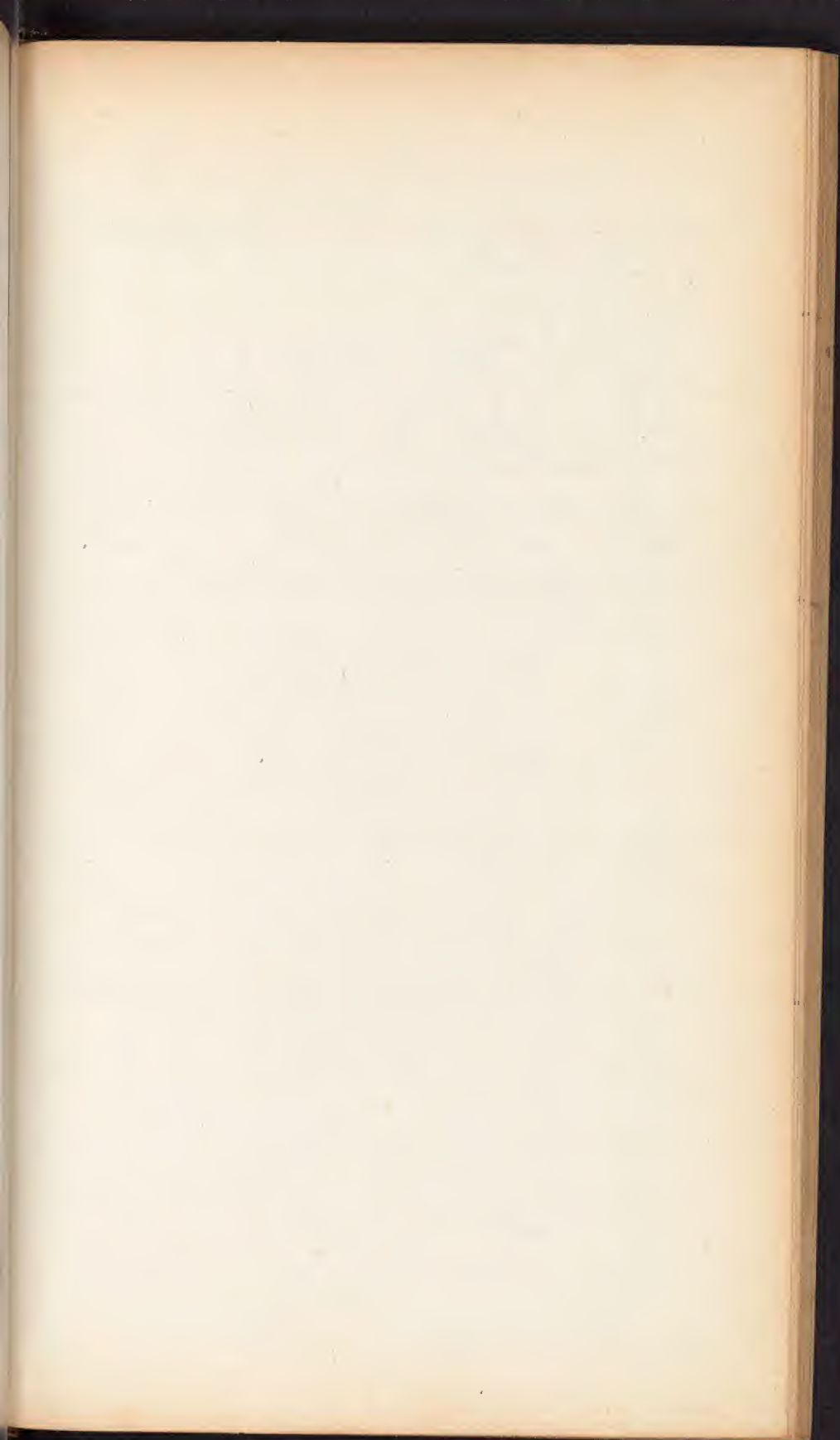
In Ulceration remove cause  
no need of pulling out a tooth  
unless it is a bad one

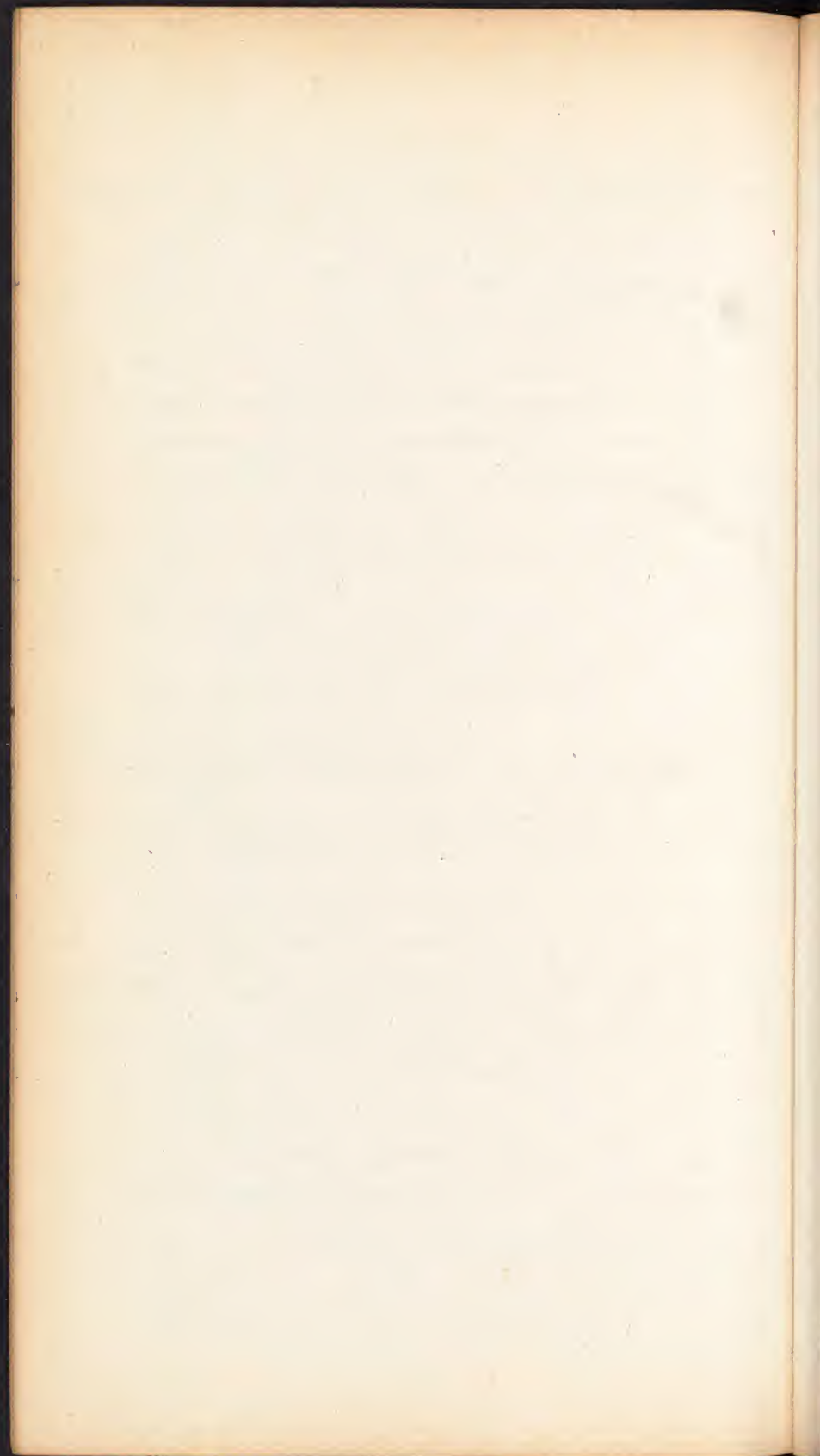


Dear Sir,  
I have the honor to acknowledge  
the receipt of your letter of the  
15th inst. in relation to the  
above mentioned matter.  
I am sorry to hear that you  
are not satisfied with the  
result of the investigation.  
I will endeavor to do all in  
my power to satisfy you.

I am, Sir, very respectfully,  
Your obedient servant,  
J. H. [Name]  
[Address]

I am, Sir, very respectfully,  
Your obedient servant,  
J. H. [Name]  
[Address]





Handwritten text, likely bleed-through from the reverse side of the page. The text is illegible due to fading and blurring.



In Serous Cystic tumor perfectly  
& insert a tent ~~until~~ & keep them  
till all fluid is evacuated

In fibrous tumor of Antrum  
Cut out tumor

Cut out Epithelial Cancer &  
spray of Lupus -

In fungous tumor of Antrum  
if at early stage Medullary  
Cancer. Remove upper jaw.

SERO-CYSTIC TUMOR OF ANTRUM.

*Definition.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

FIBROUS TUMOUR OF ANTRUM.

*Definition.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

FUNGUS TUMOUR OF ANTRUM.

*Definition.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

POLYPUS OF ANTRUM.

*Varieties.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

BONY TUMOUR OF ANTRUM.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

FOREIGN BODIES LODGED IN THE CAVITY OF THE ANTRUM.

*Varieties.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

• OSTEO-SARCOMA OF UPPER JAW.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

OSTEO-SARCOMA OF LOWER JAW.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

SPINA-VENTOSA OF LOWER JAW.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

EXOSTOSIS OF LOWER JAW.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

ANCHYLOSIS OF LOWER JAW.

*Varieties.*—True and false.  
*Causes of each.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

REMOVAL OF UPPER JAW.

*Mode of operating.*

REMOVAL OF LOWER JAW.

*Mode of operating.*

REMOVAL OF SYMPHYSIS OF LOWER JAW.

*Mode of operating.*

RESECTION OF DIFFERENT PORTIONS OF THESE BONES.

*Mode of operating.*

EPULIS.

*Definition.*  
*Varieties.*  
*Causes.*  
*Symptoms in each variety.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

Removal of upper jaw. Cut from Ext. angle  
under orbit around cheek & don't strike  
the pterio dura or paralyse E<sup>yes</sup> <sup>upper</sup>  
then <sup>down</sup> the Nose. & cut with ~~scissors~~ <sup>the</sup> <sup>upper</sup>  
the Ext. Angle. The Zygomatic & up the  
nose & pull out a tooth & cut them  
with a chisel the points will fall  
out.

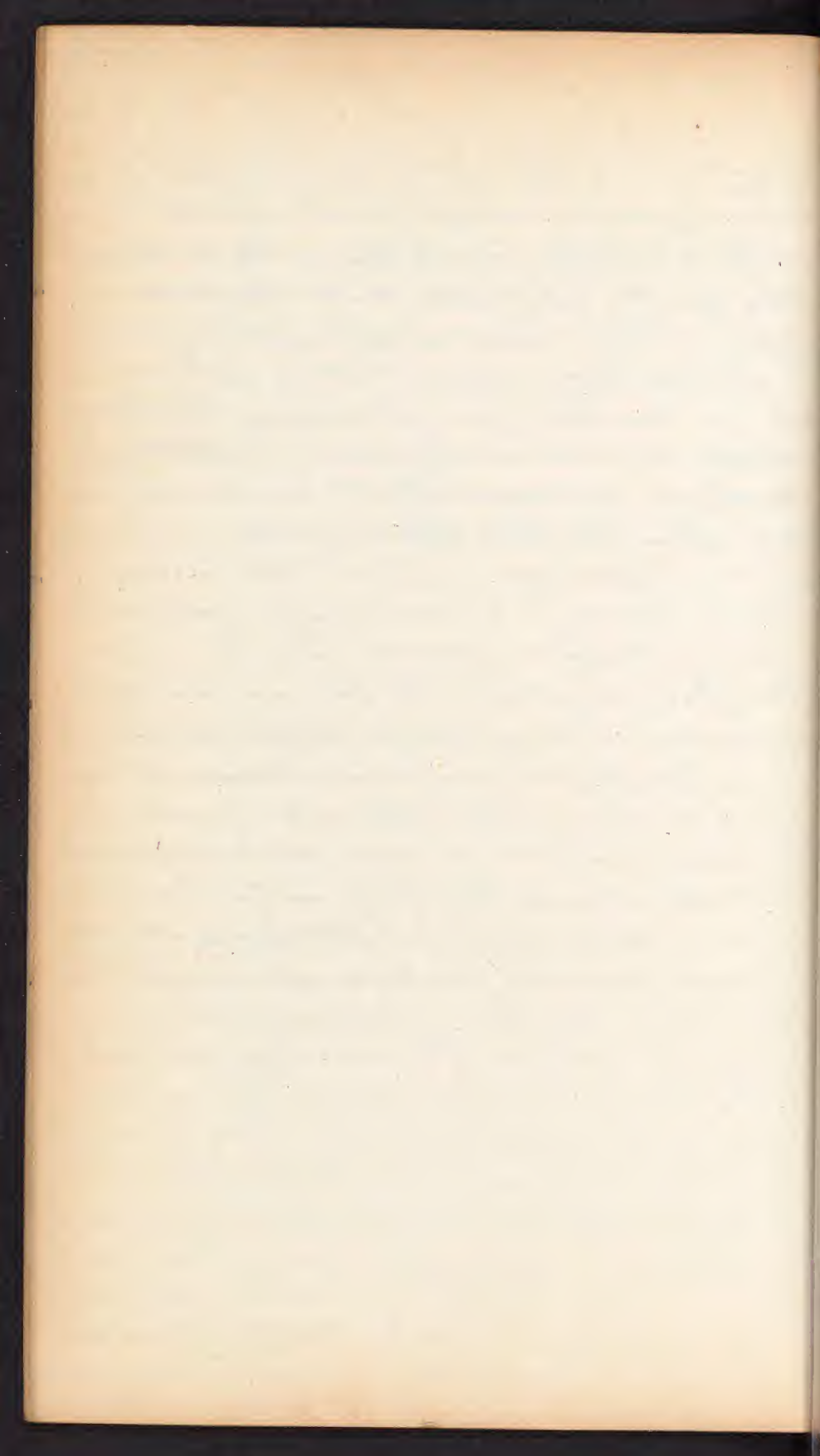


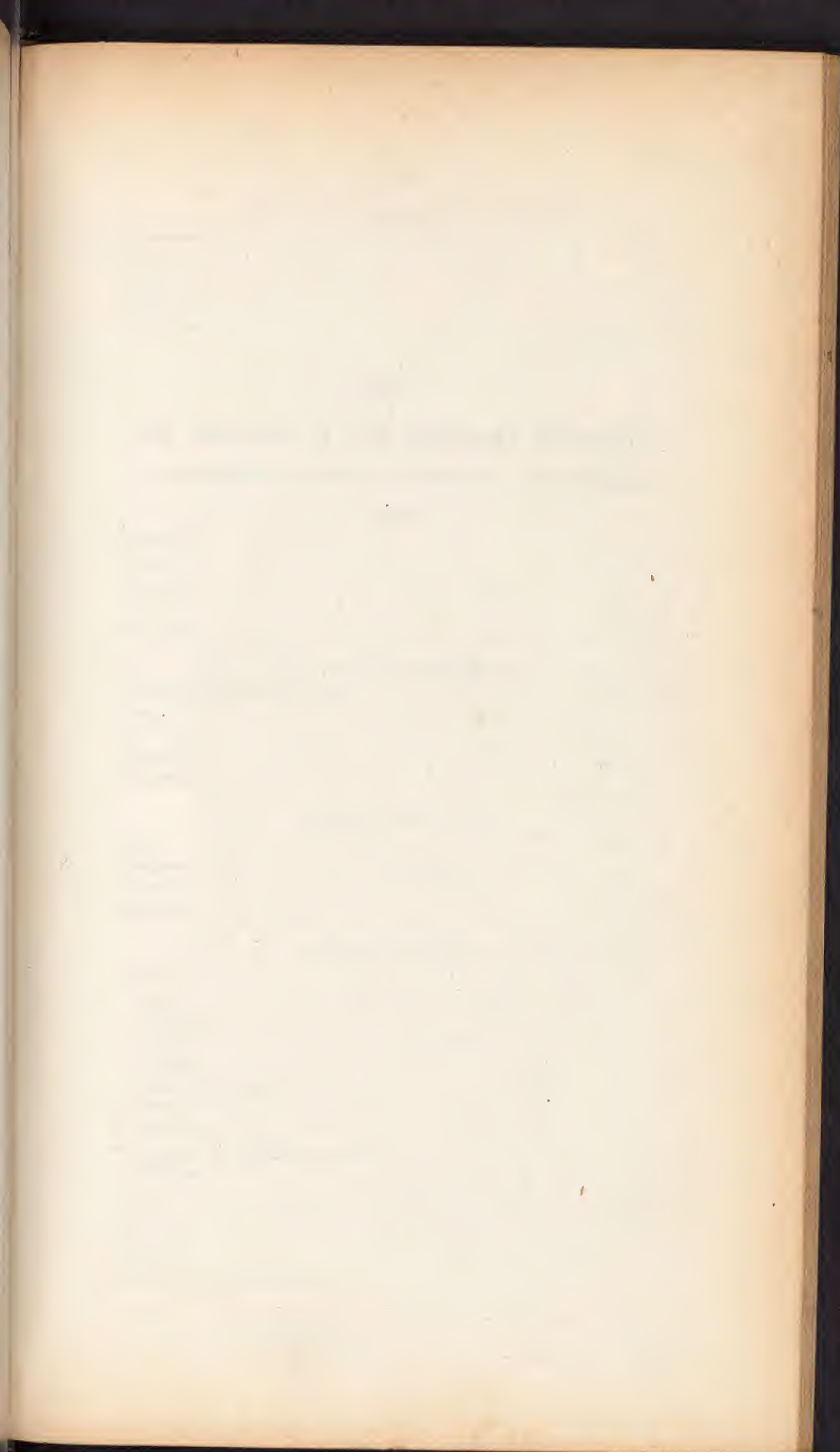
Mitchell. Laryngitis oedematous - effusion  
into submucous cellular tissue - In young child  
not knowing how to cough may close the  
narrow orifice of the glottis and suffocate  
Hence simple laryngitis may  
terminate in resolution or in effusion or  
in thickening of submucous tissue -

Inspiration very difficult because  
the pouches of glottis pushed down and  
close the orifice in such a manner as  
to impede the breathing expiration pushes  
them away and hence it is pec - relieve  
with a feather in order to get it out  
This disease generally terminates favorably tho  
generally the patient suffers severe inconvenience  
from the sensitive condition of the parts -

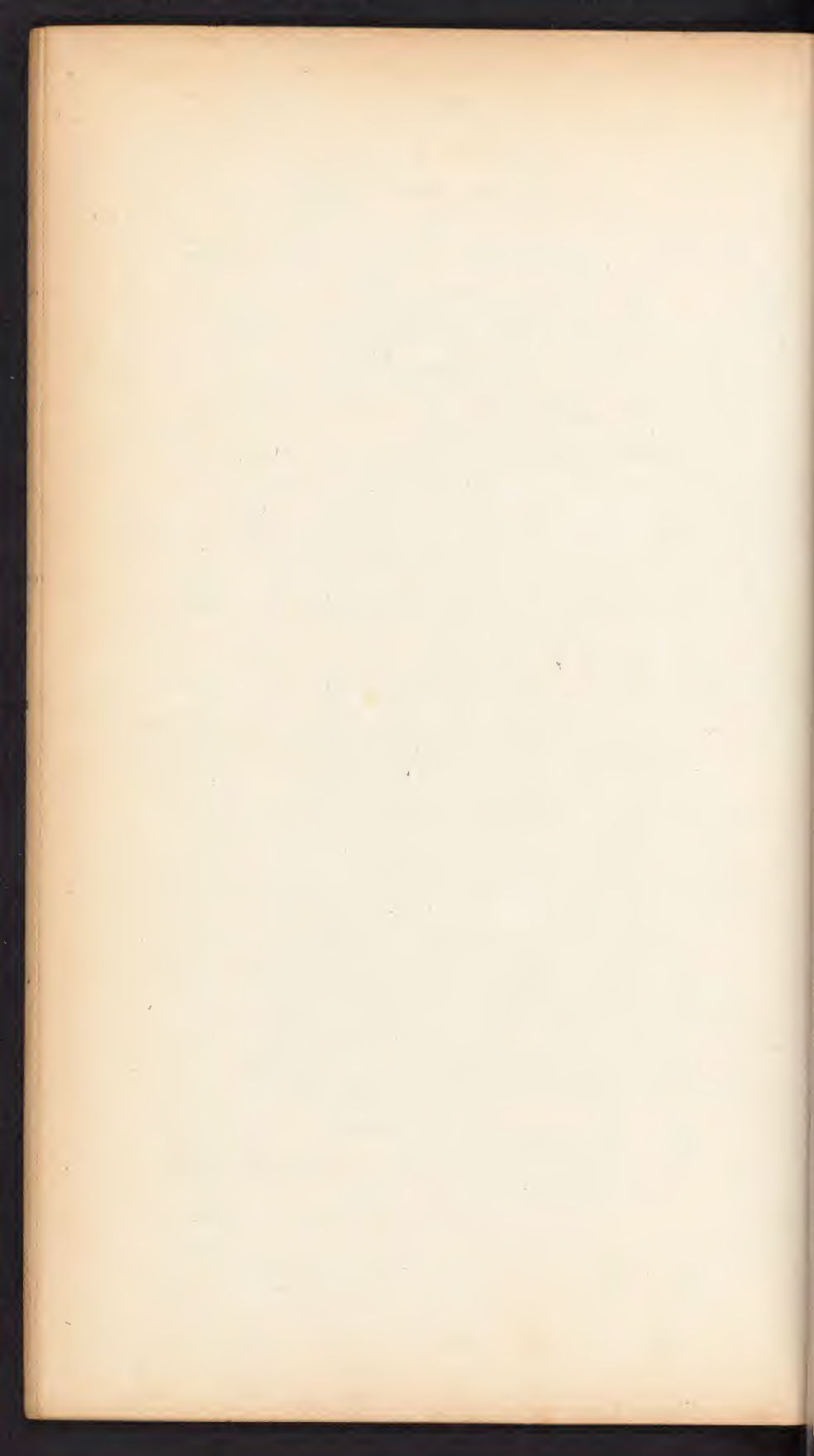
Treatment - Oedematous cases may be  
stopped - Leeches exercise peculiar influence  
on mucous tissue hence preferable to more  
stimulating pustulation Iodine Anti - Acrid  
pediclarvia Lax and Sea Burch best  
emit Cupri Sulphur applied to throat  
excellent - Ipecac & Ergot Iodine & U  
Calomel by dose & evacuation. Iodine from  
laxative and sedative effects - In Oedema  
large dose Calomel Emetics Colic  
Remove the exudation which will  
absorb & prevent by clipping finger in  
place and tea  
Chronic Laryngitis - Arising syphilitic in  
and glottis resort to the means -

has been called by many different authors  
may have tubercles in larynx, may lose  
the voice, change of location will often enter  
to remove the disease. - Various symptoms, pain,  
disagreeable loss of voice from increased  
pressure - time of day and kind of meals  
will alter the feelings of the patient.  
Duration and termination vary - Great onset  
very for the tubercular and cancerous  
affections never recover - always proceed to  
the cause of it, if Syph, Scroph or Tubercular  
and treat accordingly - Change of climate  
counter indication. Information of ~~the~~  
adventitious membrane of the larynx of Cancer  
very good - Inhalation of Chlorine -









PARULIS.

*Definition.*  
*Causes.*  
*Symptoms.*  
*Prognosis.*  
*Treatment.*

---

VIII. DISEASES OF THE SALIVARY APPARATUS.

I. DISEASES OF THE PAROTID GLAND AND ITS DUCT.

WOUNDS.

*Varieties.*  
*Causes.*  
*Symptoms.*  
*Prognosis.*  
*Treatment.*

INFLAMMATION OF THE GLAND.

*Varieties.*—Acute and chronic.  
*Causes.*  
*Symptoms.*  
*Prognosis.*  
*Treatment.*

ABSCESS OF THE GLAND.

*Causes.*  
*Symptoms.*  
*Prognosis.*  
*Treatment.*

TUMOUR OF THE GLAND.

*Varieties.*  
*a.* Fatty.  
*b.* Melanotic.  
*c.* Encysted.  
*d.* Fibrous.  
*e.* Simple hypertrophy.  
*f.* Erectile.  
*g.* Aneurismal.  
*h.* Swelling from salivary concretion.  
*i.* Schirrous.  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*—In each variety.

TUMOURS OCCUPYING THE PAROTID SPACE.

*Varieties.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

WOUNDS OF PAROTID DUCT.

*Varieties.*

*Symptoms.*

*Prognosis.*

*Treatment.*

FISTULA OF PAROTID DUCT.

*Varieties.*

*Causes.*

*Symptoms.*

*Prognosis.*

*Treatment.*—Four methods. 1. Cicatrization of the Fistulous orifice. 2. Dilatation of the inner portion of the duct. 3. The establishment of a new opening in the mouth, or forming a new portion of the canal, where the original has been destroyed. 4. Destruction of the parotid gland.

Agents employed under the 1st head—

*a.* Suture.

*b.* Cauterization.

*c.* Compression.

*d.* Plastic operation.

Agents employed under the 2d head—

*a.* Seton.

*b.* Probing.

Agents employed under the 3d head—

*a.* Operation of Deroy.

*b.* " " Duphenix.

*c.* " " Monro.

*d.* " " Tessard and Flajani.

*e.* " " Atti.

*f.* " " Deguise.

*g.* " " Bonnafons.

*h.* " " J. Rhea Barton.

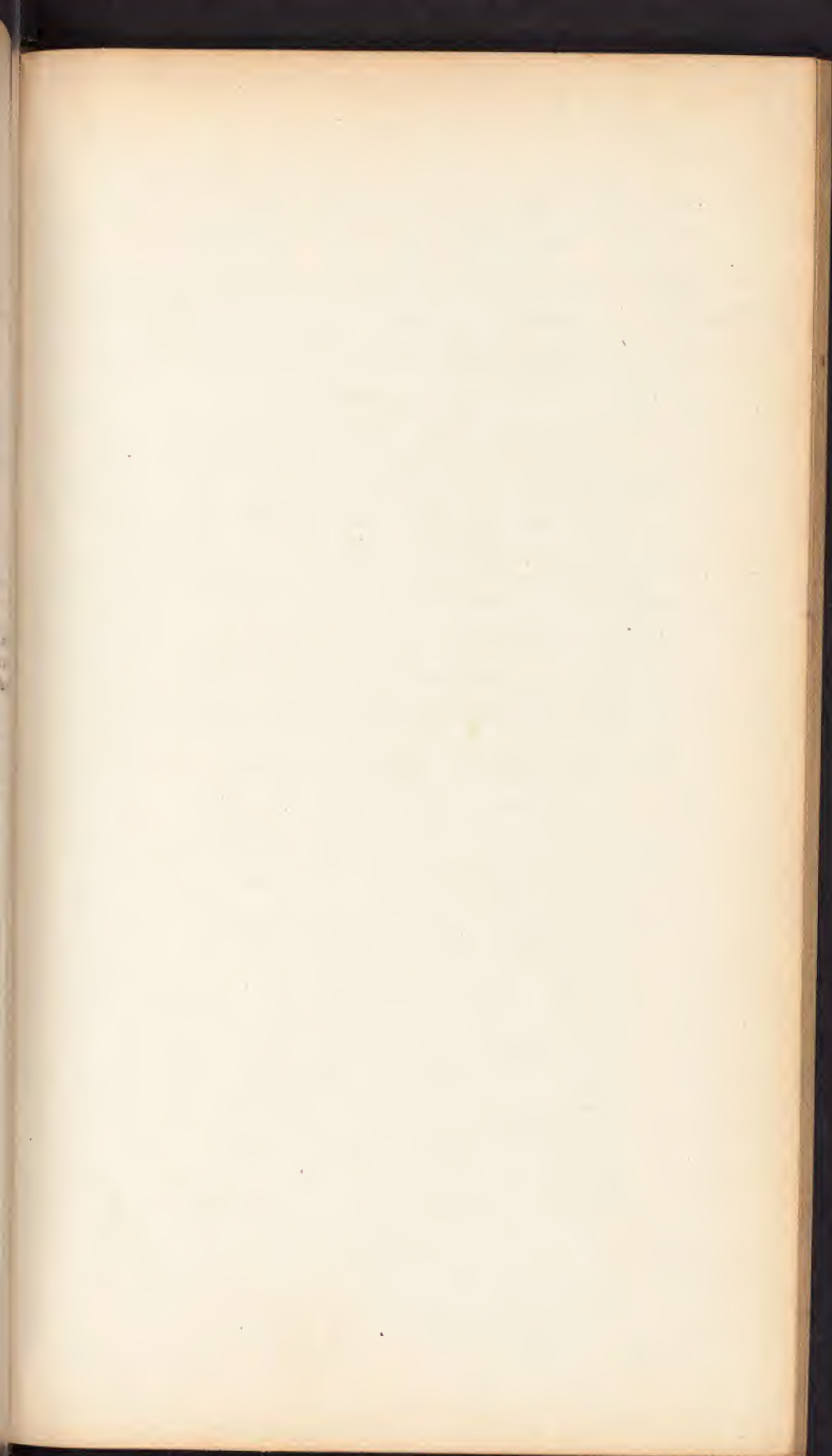
*i.* " " Horner.

Agents employed under the 4th head—

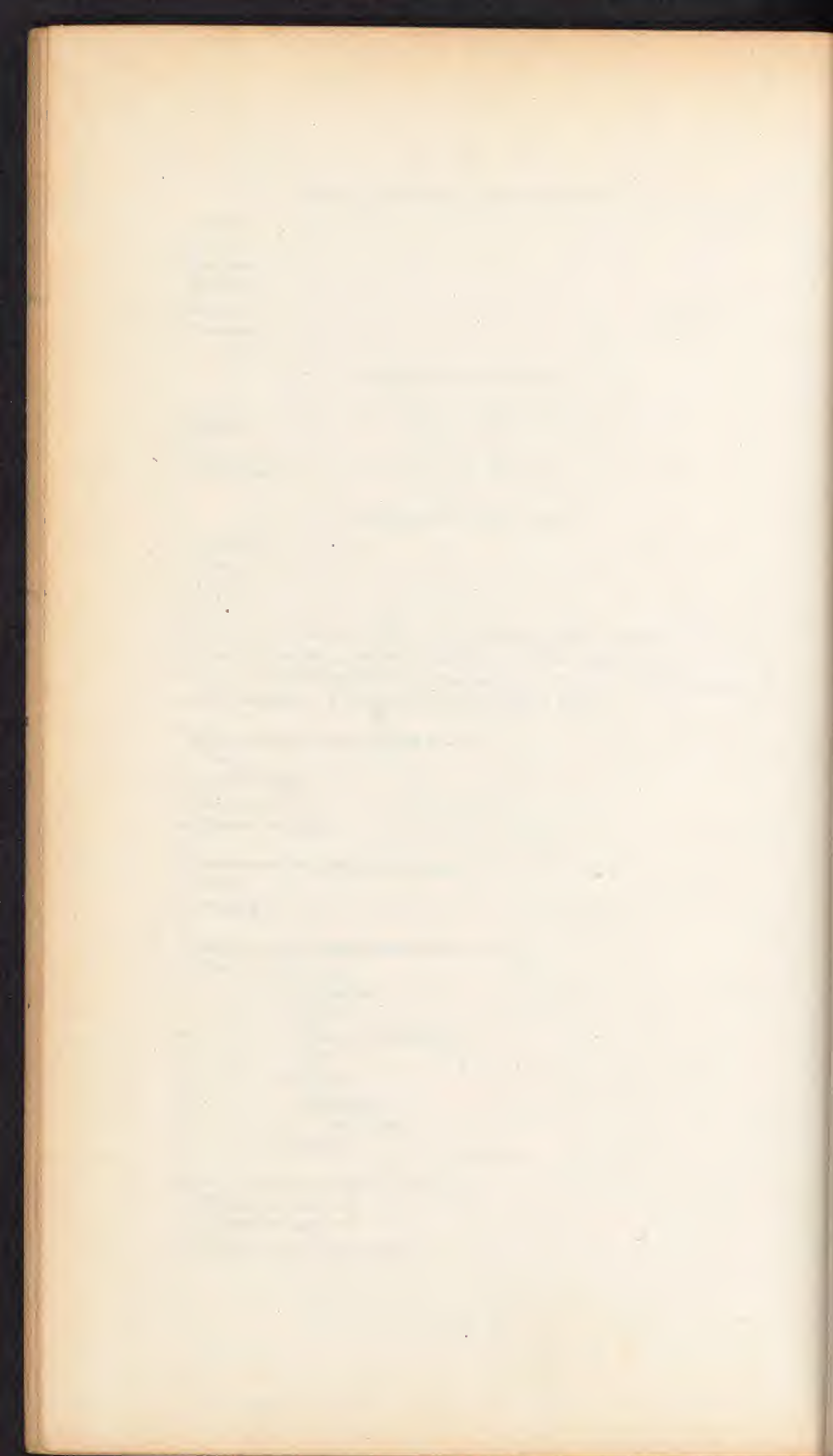
*a.* Pressure on the duct.

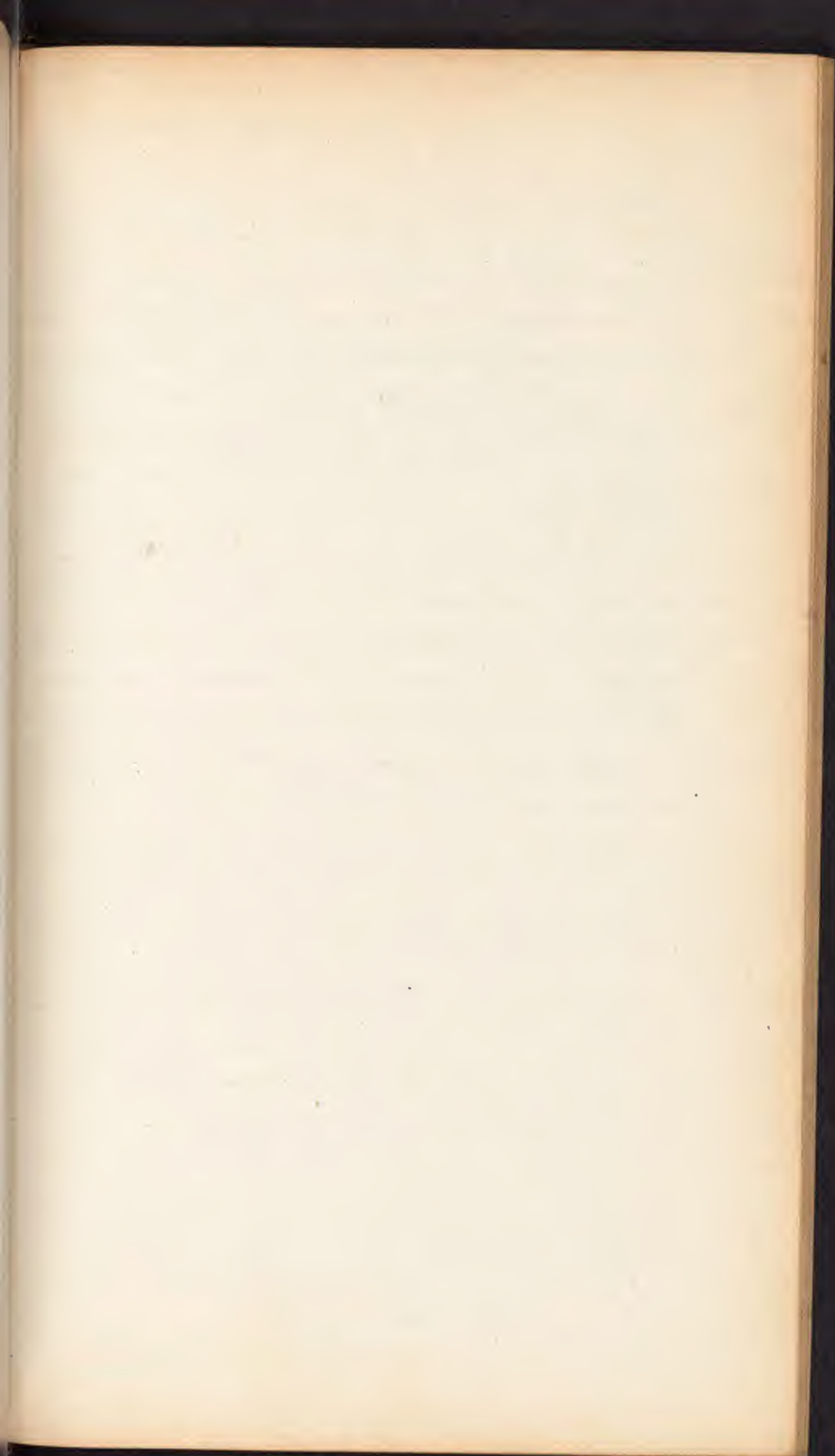
*b.* Ligature of duct.

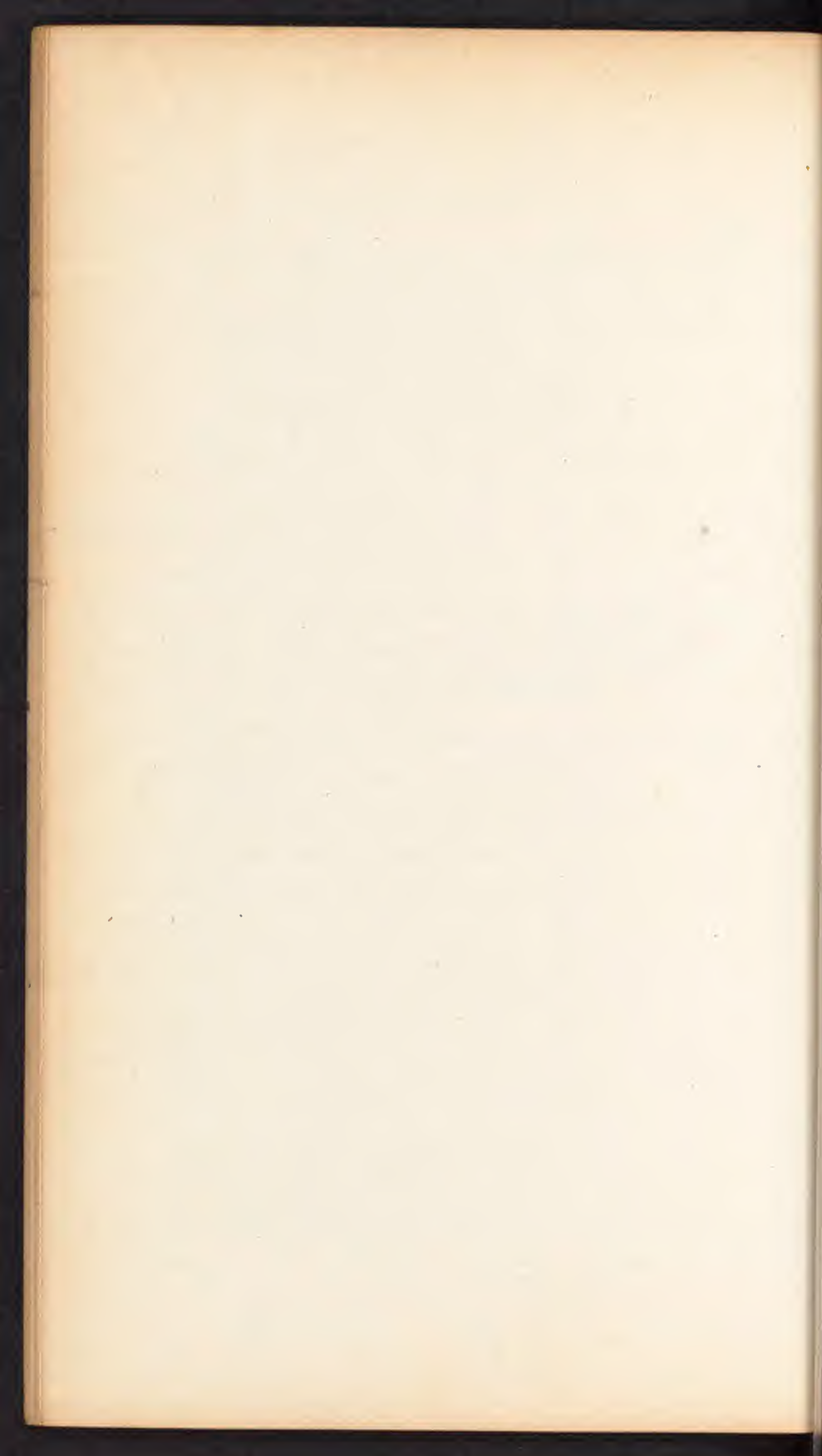
*c.* Pressure on the gland itself.

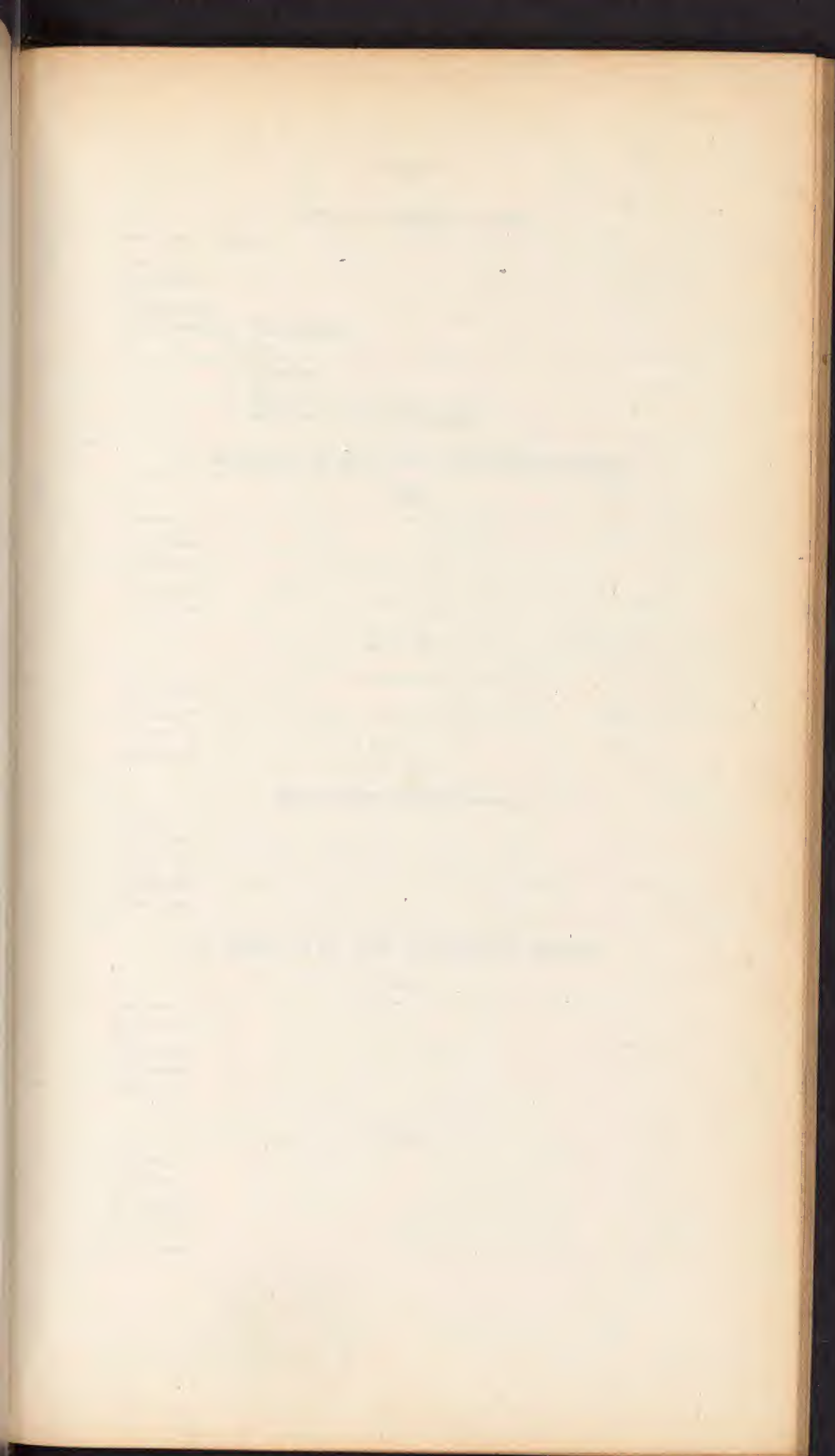




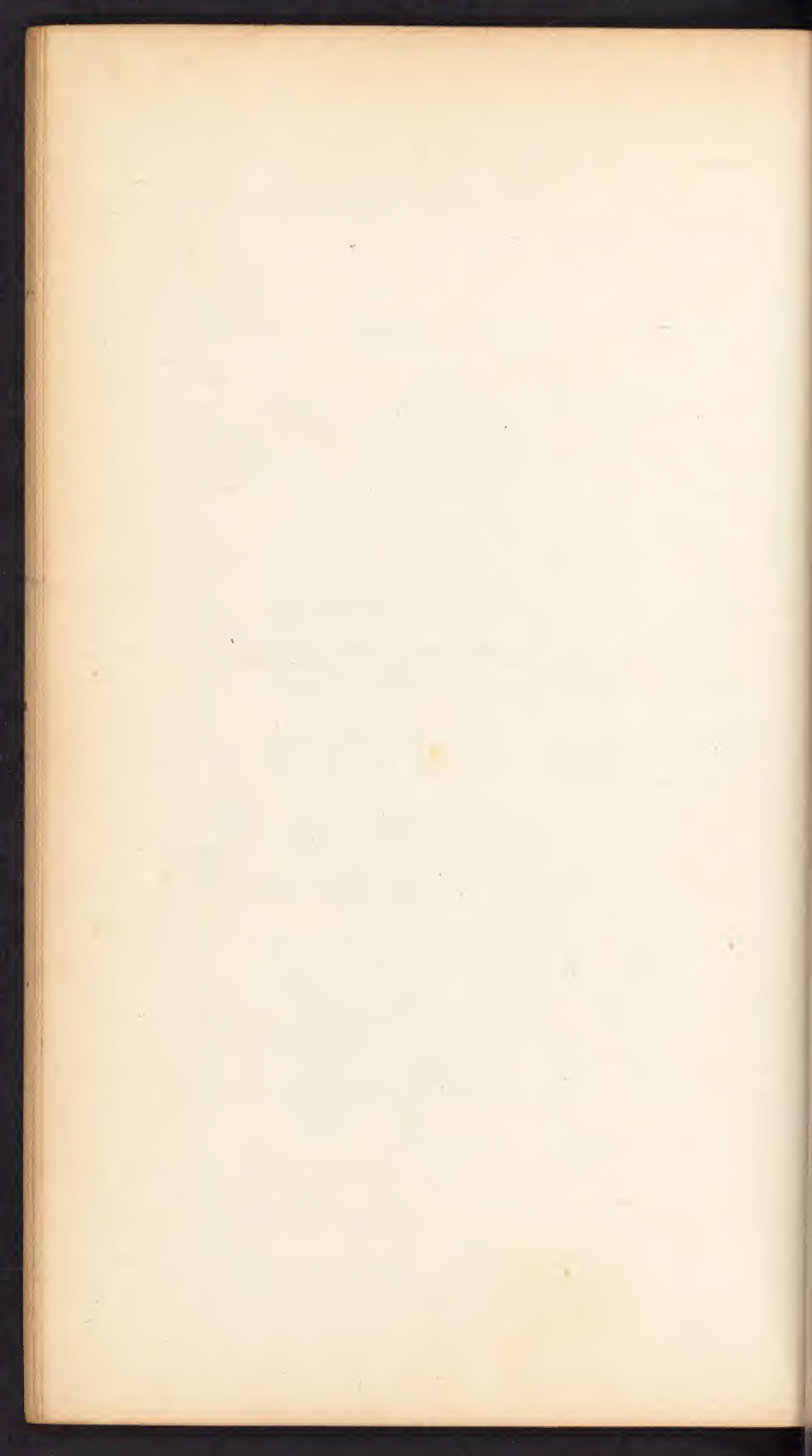












FISTULÆ OF PAROTID GLAND.

*Varieties.*—Two.

*Causes.*

*Symptoms.*

*Prognosis.*

*Treatment.*—*a.* Cauterization.

*b.* Suture.

*c.* Excision.

*d.* Blisters.

*e.* Gold leaf plaster of Malgaigne.

II. DISEASES OF THE SUB-MAXILLARY GLAND.

WOUNDS.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

FISTULA.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

ENLARGEMENT OF THE GLAND.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

III. DISEASES OF THE SUBLINGUAL GLAND.

WOUNDS.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

FISTULA.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

RANULA.

*Definition.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

ENLARGEMENTS OF THE GLAND.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

SALIVARY CALCULUS.

*Location.*  
*Varieties.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

IX. DISEASES AND INJURIES OF THE MOUTH.

I. AFFECTIONS OF THE LIPS.

WOUNDS OF THE LIPS.

*Varieties.*  
*Causes.*  
*Symptoms.*  
*Treatment.*

SIMPLE TUMORS OF THE LIPS.

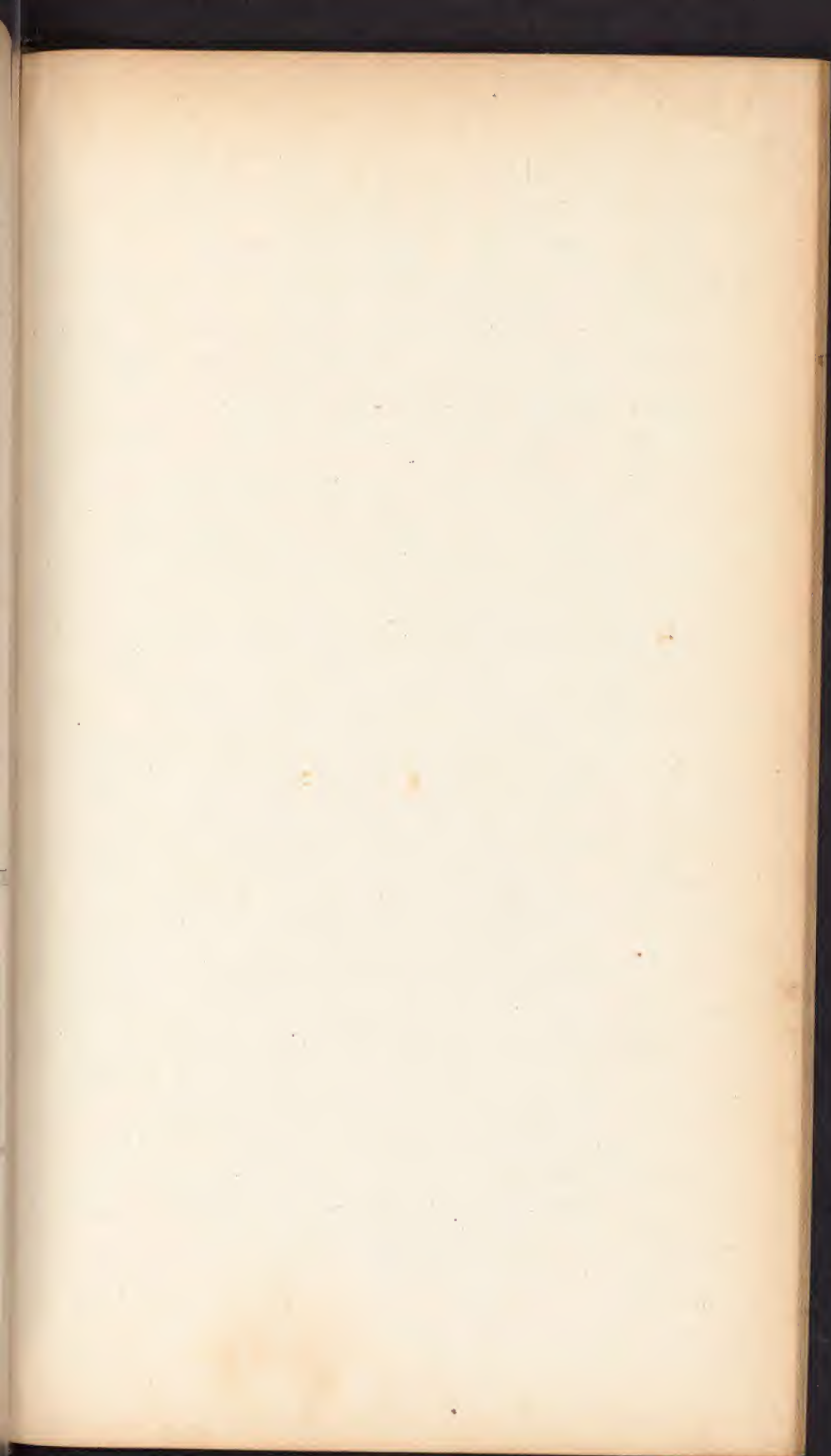
*Varieties.*—Encysted, fatty, transparent cyst, enlarged follicles, verruca, moles, &c. &c.

*Causes.*—Vary in each form.

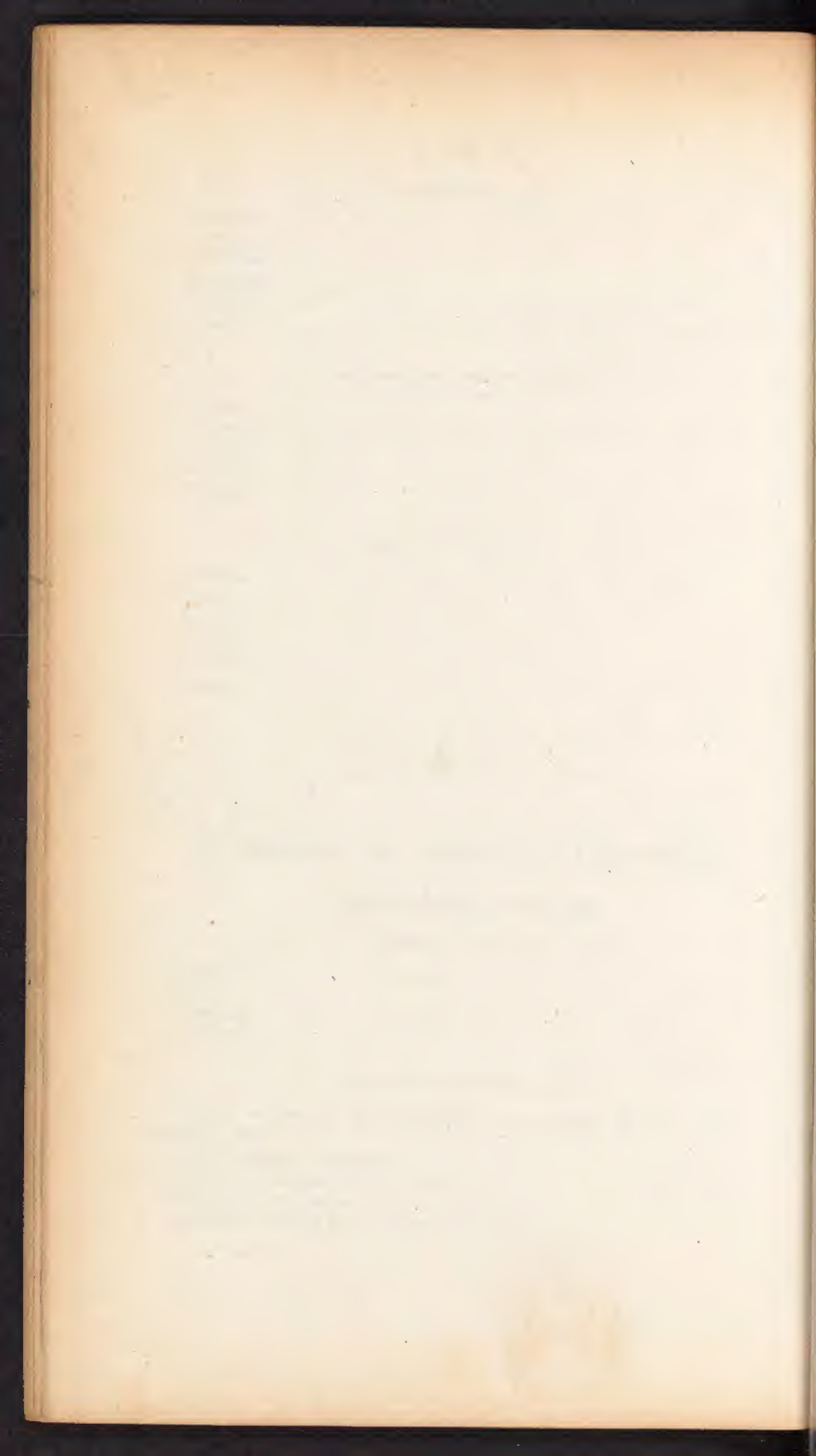
*Symptoms.*—Depend on the variety.

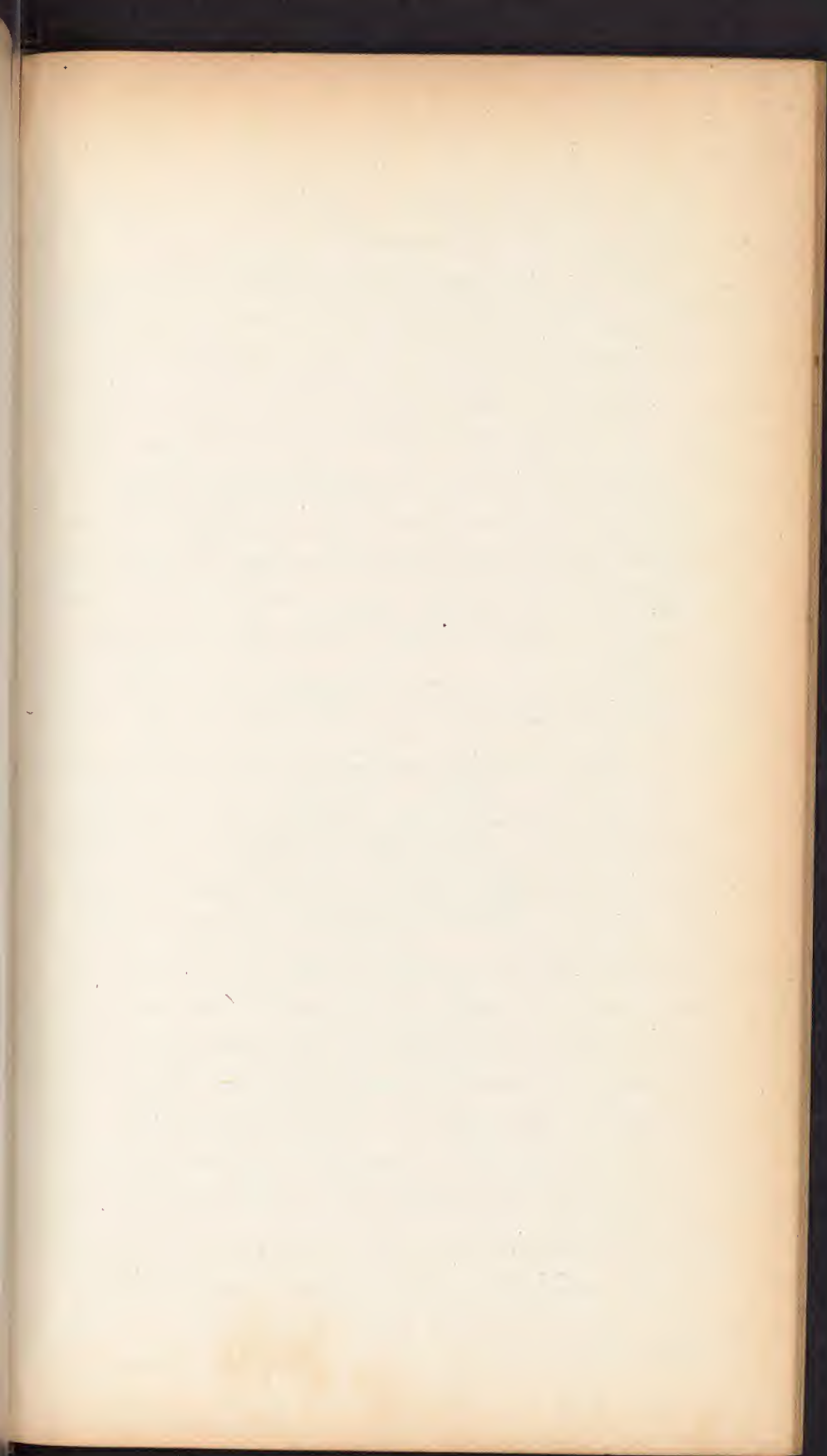
*Prognosis.*—Depends on the kind of tumour.

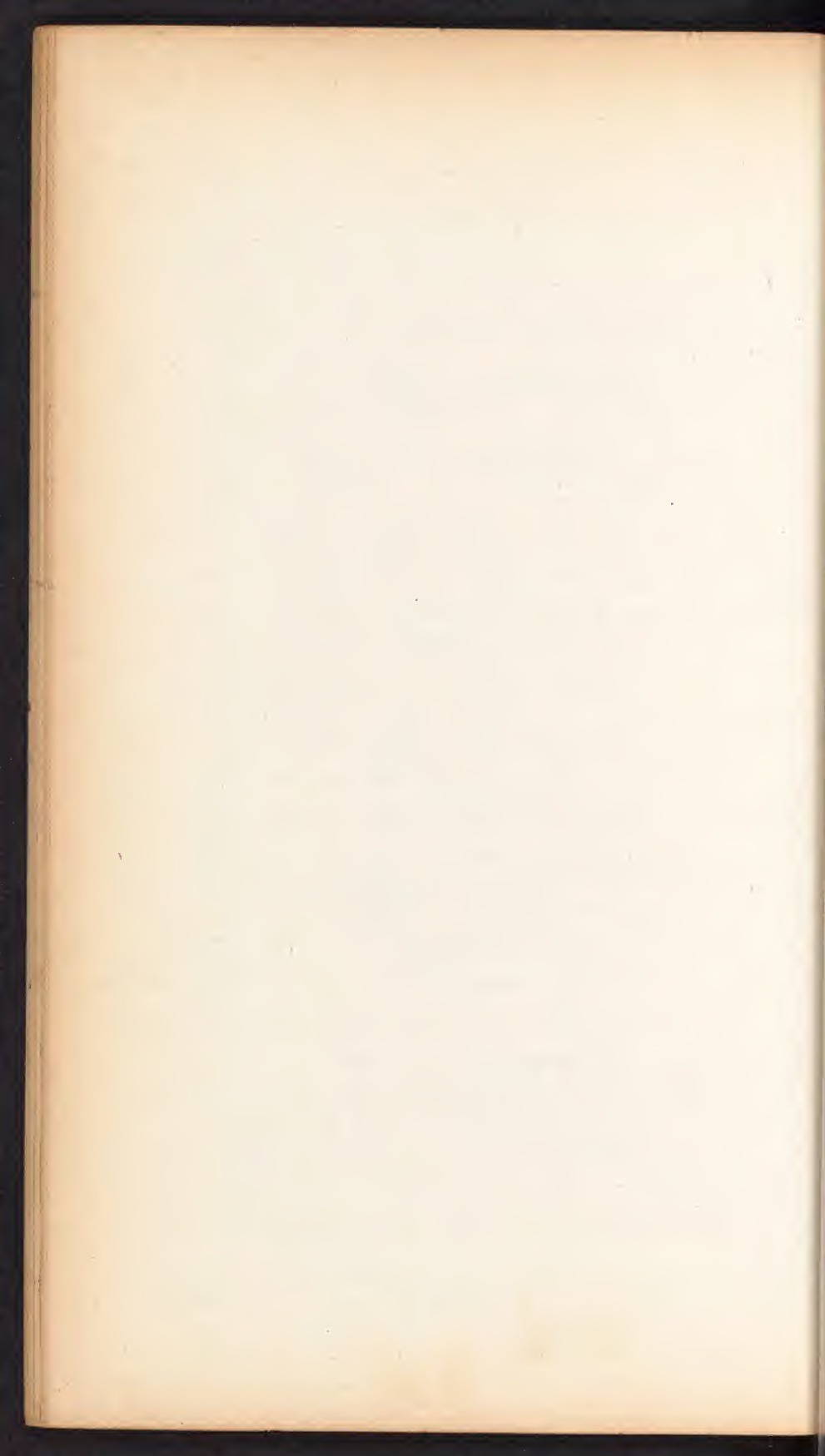
*Treatment.*—Varies with the form of tumour.

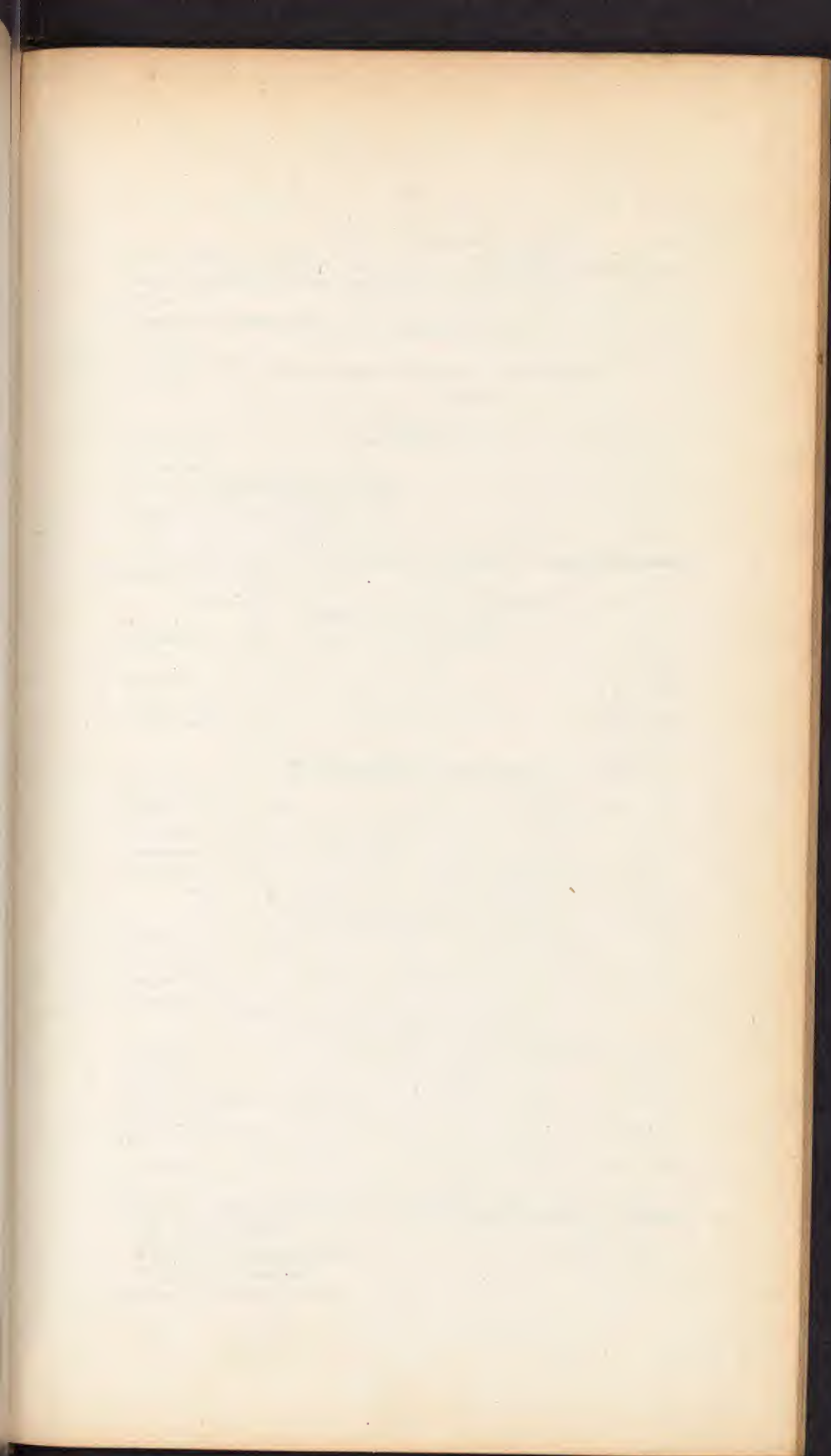




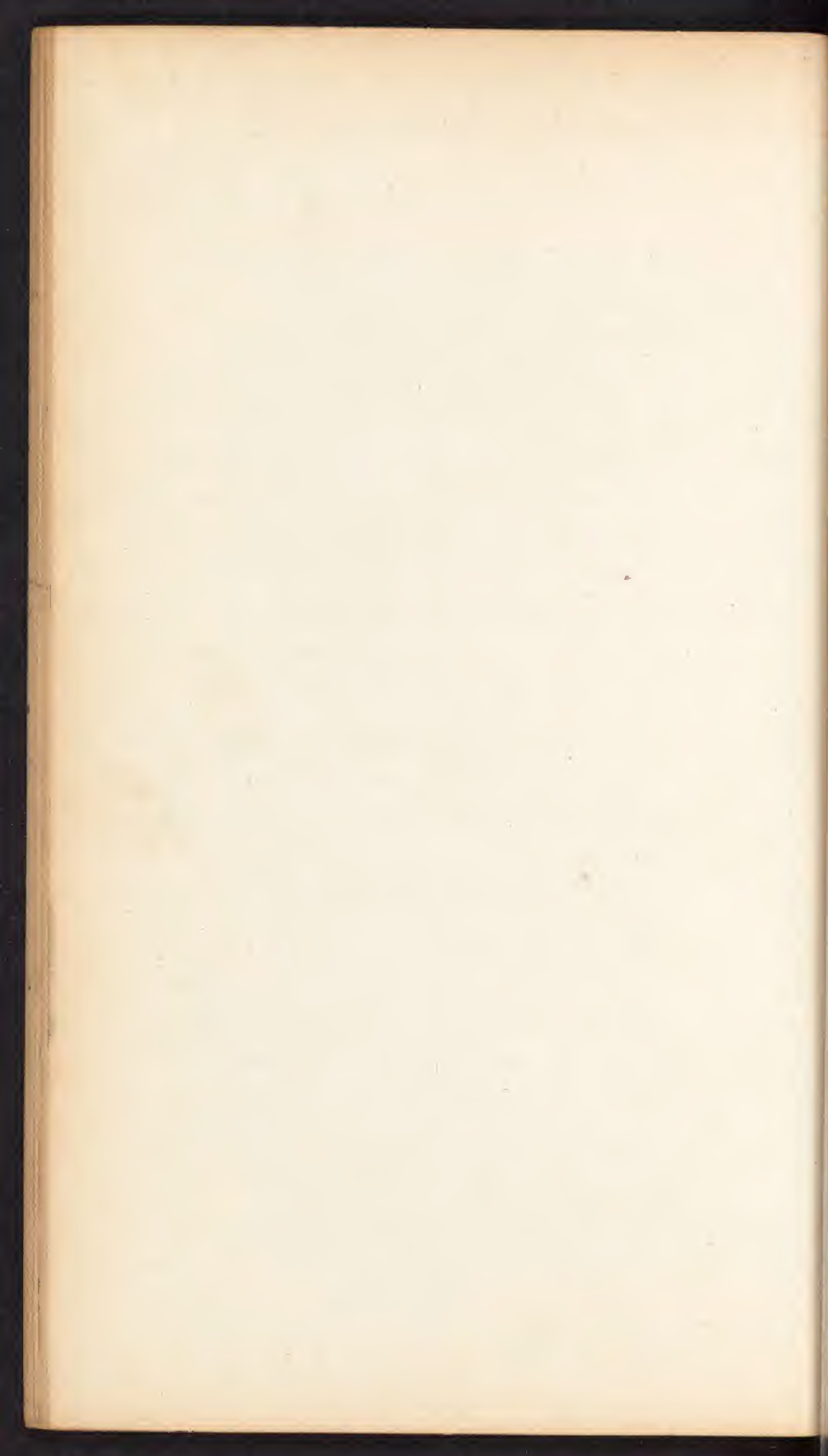












CANCER OF THE LIP.

*Points usually attacked.*—Margin, and especially that of the lower lip.

*Varieties.*—Superficial and deep-seated.

*Causes.*

*Symptoms.*—Vary with the stage and form of cancer.

*Diagnosis.*

*Prognosis.*—More favorable than in any other form of cancer.

*Treatment.*

CANCERUM ORIS.

*Definition.*

*Persons most liable to be attacked.*

*Causes.*—Constitutional and local.

*Symptoms.*—Vary with stage.

*Prognosis.*—Unfavorable.

*Treatment.*—Depends on the stage of the disease, the part attacked, and the situation of the patient.

EVERSION OR DOUBLE LIP.

*Definition.*

*Causes.*

*Symptoms.*

*Prognosis.*

*Treatment.*

HYPERTROPHY OF THE LIPS.

*Definition.*

*Causes.*

*Symptoms.*

*Prognosis.*

*Treatment.*

ADHESIONS OF THE LIPS.

*Causes.*

*Symptoms.*

*Prognosis.*

*Treatment.*

HARE-LIP.

*Definition.*

*Varieties.*

*Lip most frequently affected.*

*Complications.*

*Causes.*

*Symptoms.*

*Prognosis.*

*Treatment.*—Depends on the age of the patient and the nature of the defect.

a. The usual operation.

b. Barton's curvilinear operation.

c. Malgaigne's operation.

d. Operation without needles.

ATRESIA ORIS.

*Definition.*

*Causes.*

*Symptoms.*

*Prognosis.*

*Treatment.*

MOUTH TOO LARGE.

See Report by Velpeau of a case where the mouth was open nearly to each ear.

LOSS OF LIP.

See "Chieloplastic operations."

II. AFFECTIONS OF THE TONGUE.

WOUNDS OF THE TONGUE.

*Varieties.*

*Causes.*

*Symptoms.*

*Prognosis.*

*Results.*

*Treatment.*

GLOSSITIS.

*Definition.*

*Varieties.*—Acute and chronic.

*Causes.*

*Symptoms.*

*Prognosis.*

*Results.*

*Treatment.*

HYPERTROPHY OF TONGUE.

*Varieties.*—Congenital or acquired.

*Causes.*

*Symptoms.*

*Prognosis.*

*Effects on the bones of the mouth.*

*Treatment.*

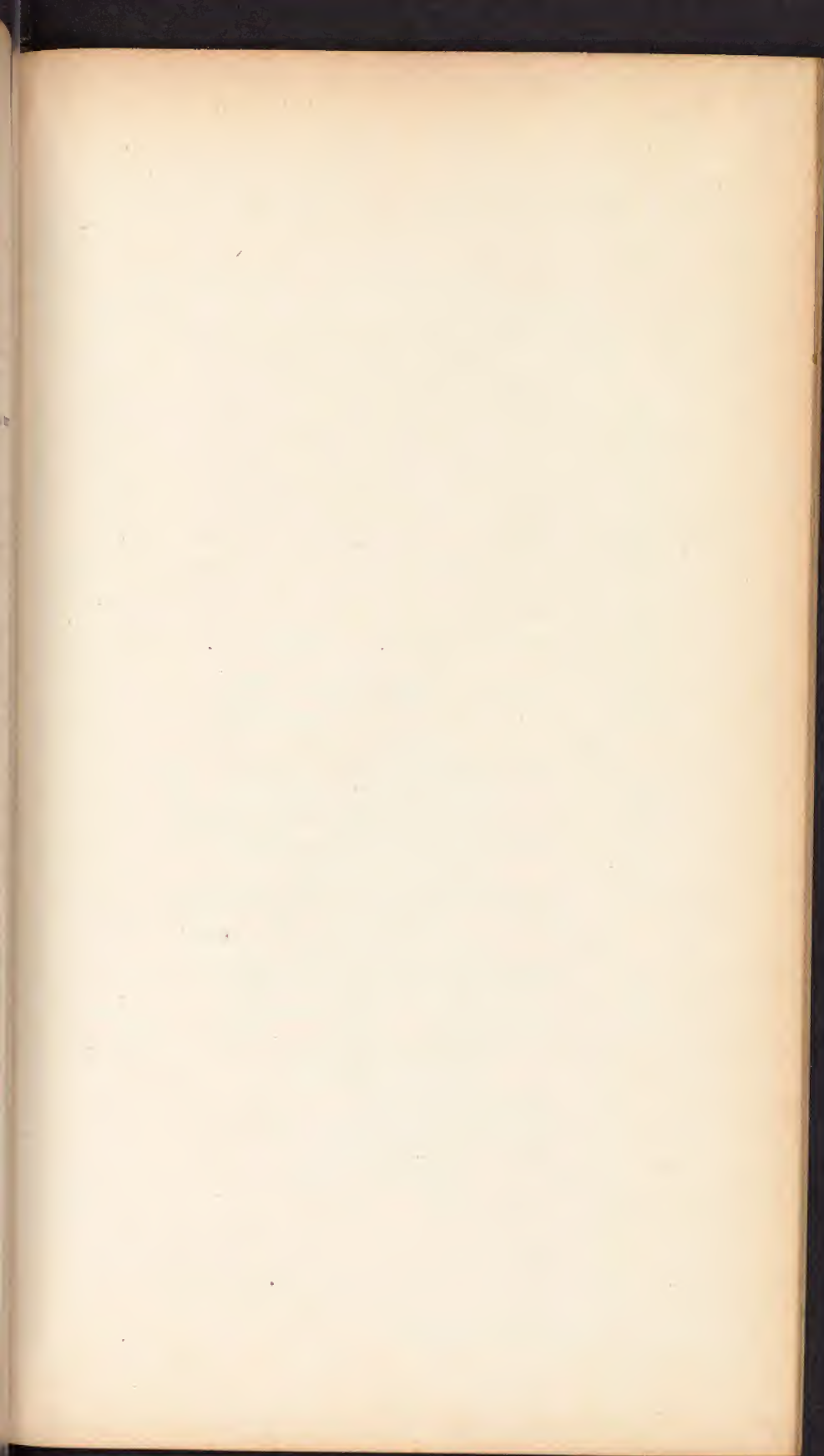
a. Remedies calculated to promote absorption.

b. Pressure.

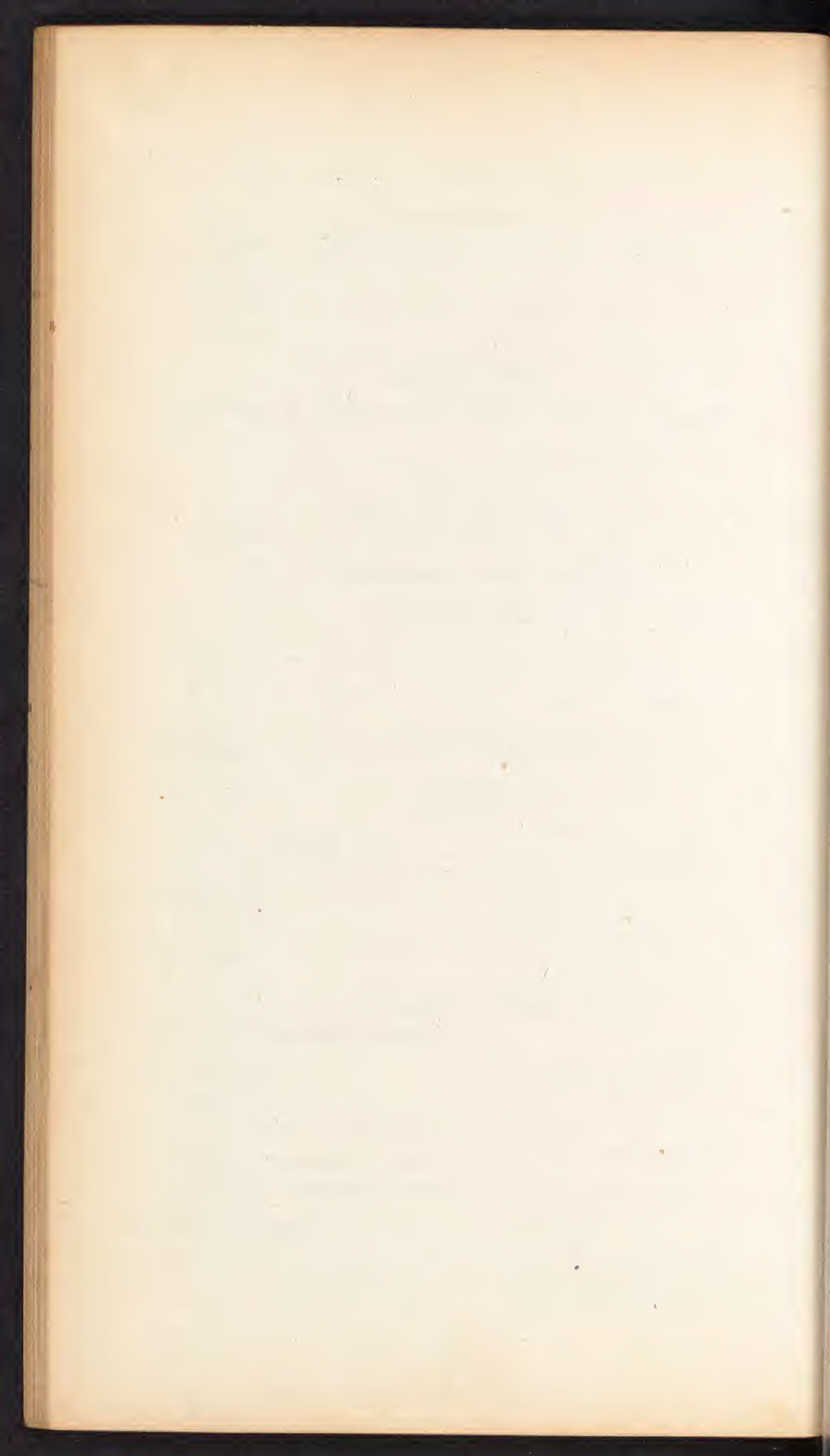
c. Ligature.

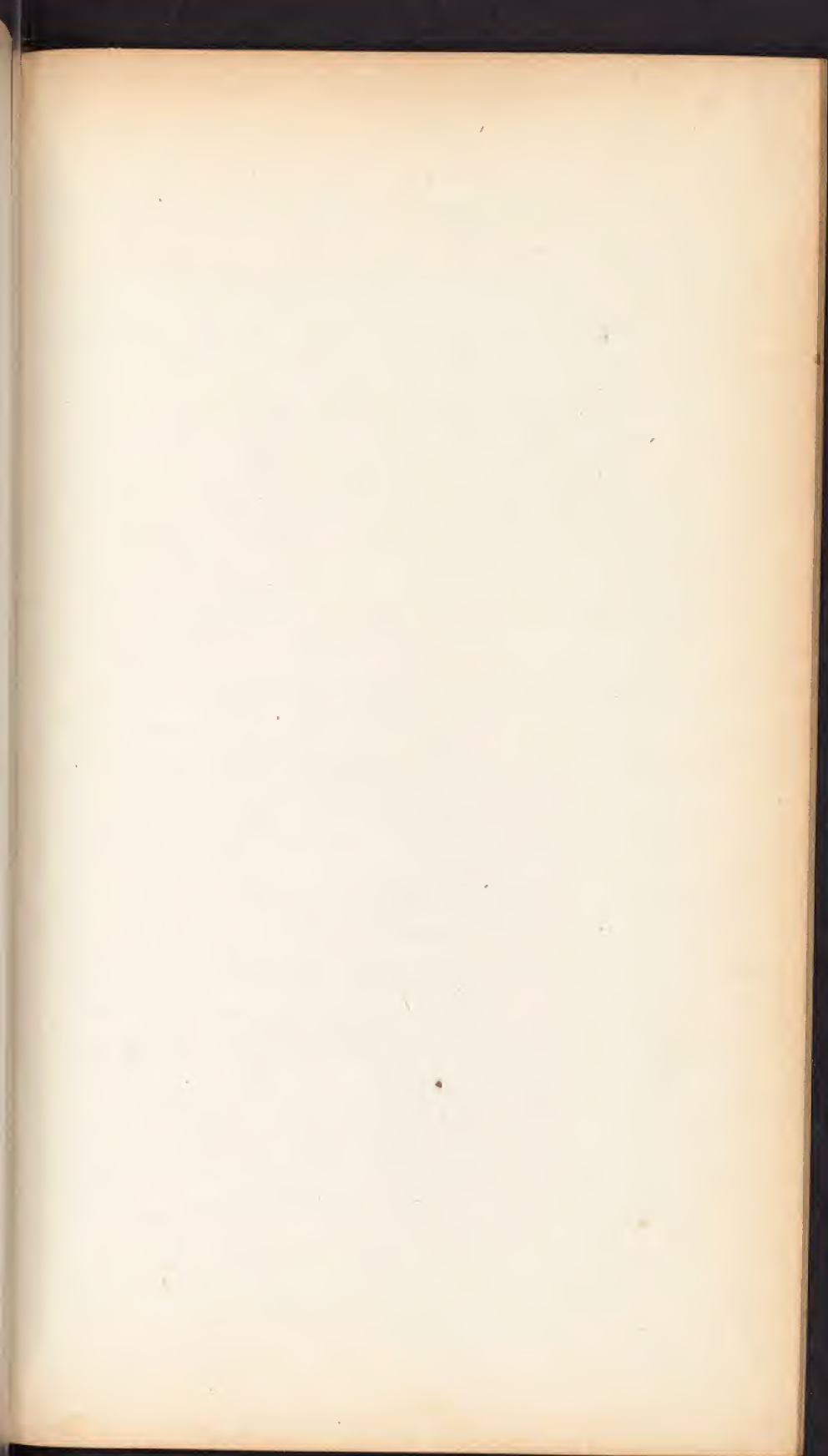
d. Scarifications.

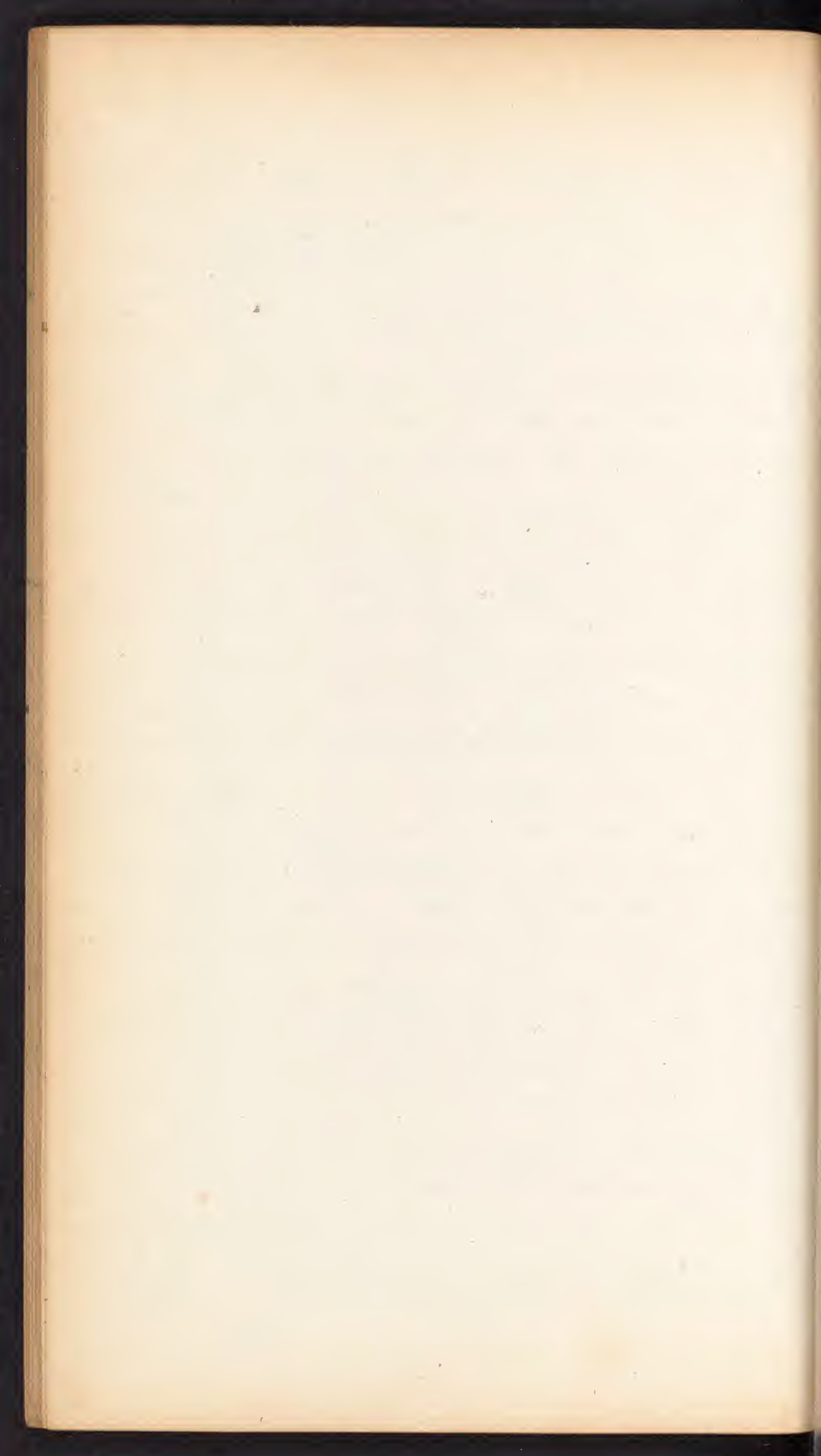
e. Excision.





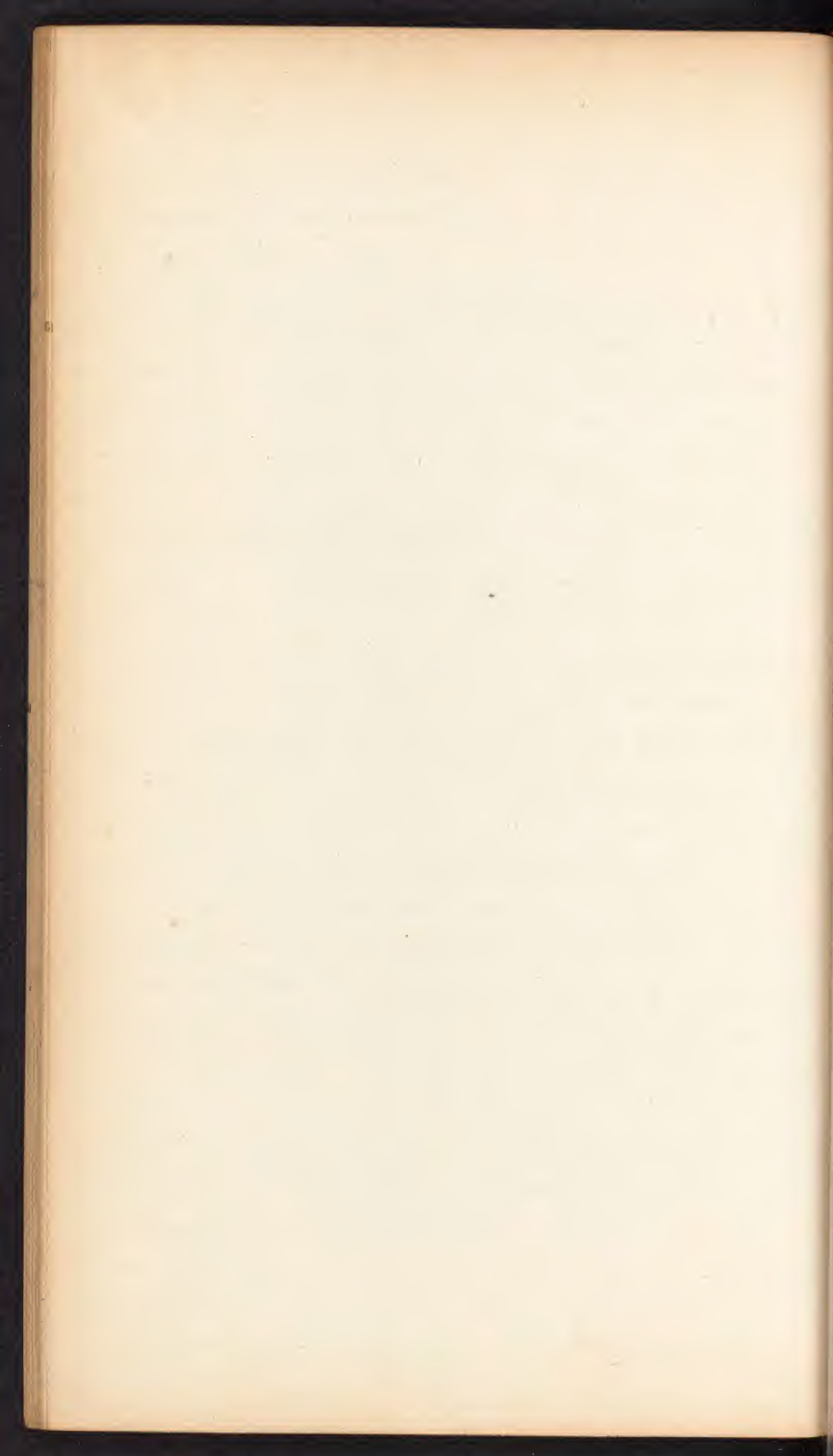












TUMOURS OF THE TONGUE.

*Varieties.*—Simple and malignant.

*Causes.*

*Symptoms.*

*Prognosis.*

*Diagnosis.*

*Treatment.*

FISSURE OF THE TONGUE.

*Definition.*

*Causes.*

*Symptoms.*

*Prognosis.*

*Treatment.*

GLAZED TONGUE.

*Definition.*

*Causes.*

*Symptoms.*

*Prognosis.*

*Treatment.*

ULCERS OF THE TONGUE.

*Varieties.*—Simple and malignant.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

CANCER OF THE TONGUE.

*Parts most frequently attacked.*

*Various forms presented in its origin.*

*Causes.*

*Symptoms.*

*Prognosis.*

*Treatment.*

ADHESION OF THE TONGUE.

*Causes.*

*Symptoms.*

*Prognosis.*

*Treatment.*

TONGUE TYE.

*Definition.*

*Causes.*

*Symptoms.*

*Prognosis.*

*Treatment.*

STAMMERING.

*Definition.*

*Causes.*—1. Congenital. 2. Acquired. 3. Functional. 4. Organic.

*Symptoms.*—Vary in different cases.

*Prognosis.*—As regards relief.

*Treatment.*

*a.* Vocal gymnastics; (so called.)

*b.* Different surgical operations.

*c.* Acupuncture as proposed by Detmold.

*Examination of the results of these measures.*

DEFORMED TONGUE.

*Varieties.*

*Causes.*

*Symptoms.*

*Prognosis.*

*Treatment.*

PARALYSIS OF THE TONGUE.

*Causes.*

*Symptoms.*

*Prognosis.*

*Treatment.*

III. DISEASES OF THE TONSILS AND ROOF OF THE MOUTH.

WOUNDS OF THE VELUM.

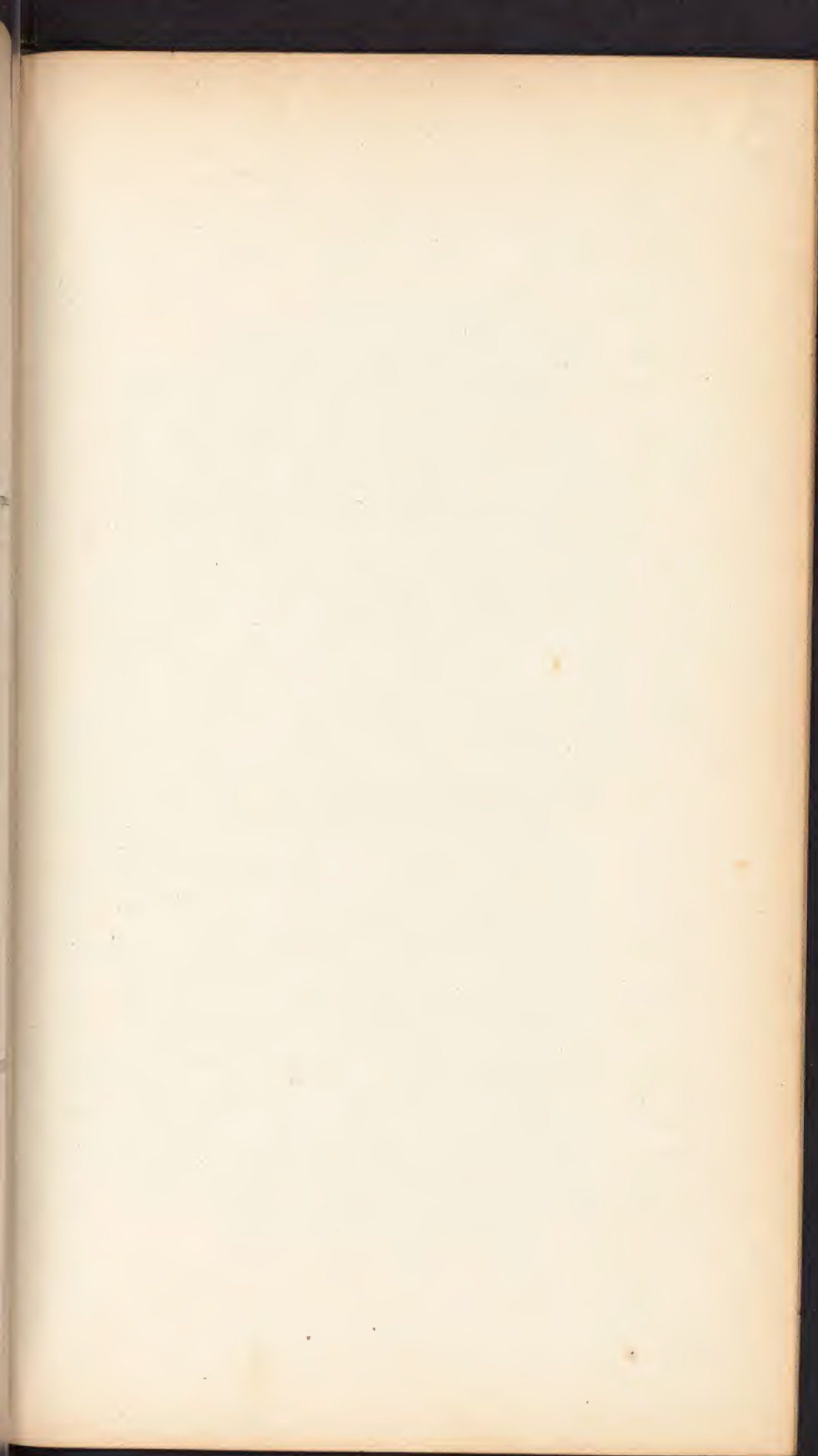
*Varieties.*

*Causes.*

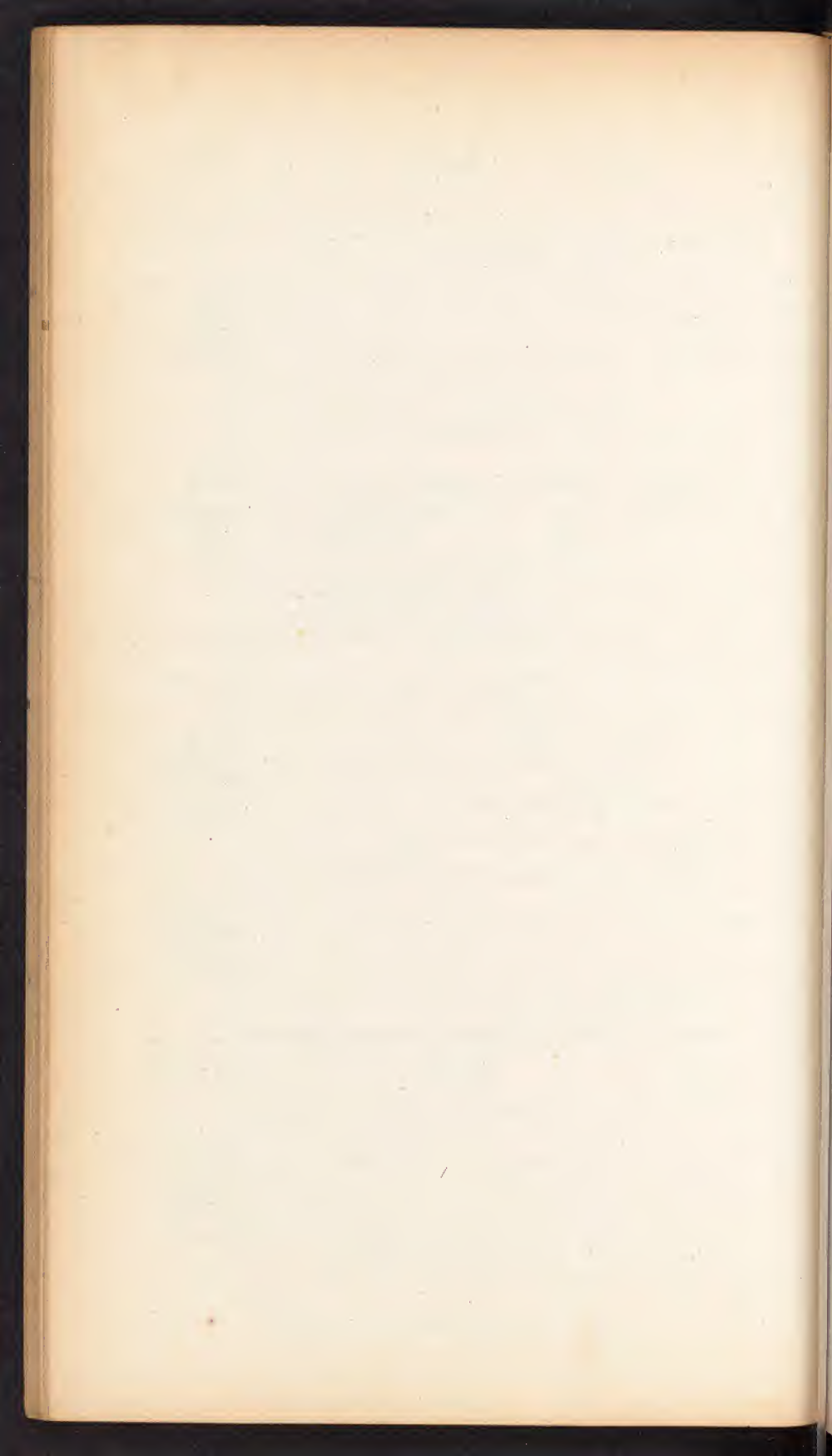
*Symptoms.*

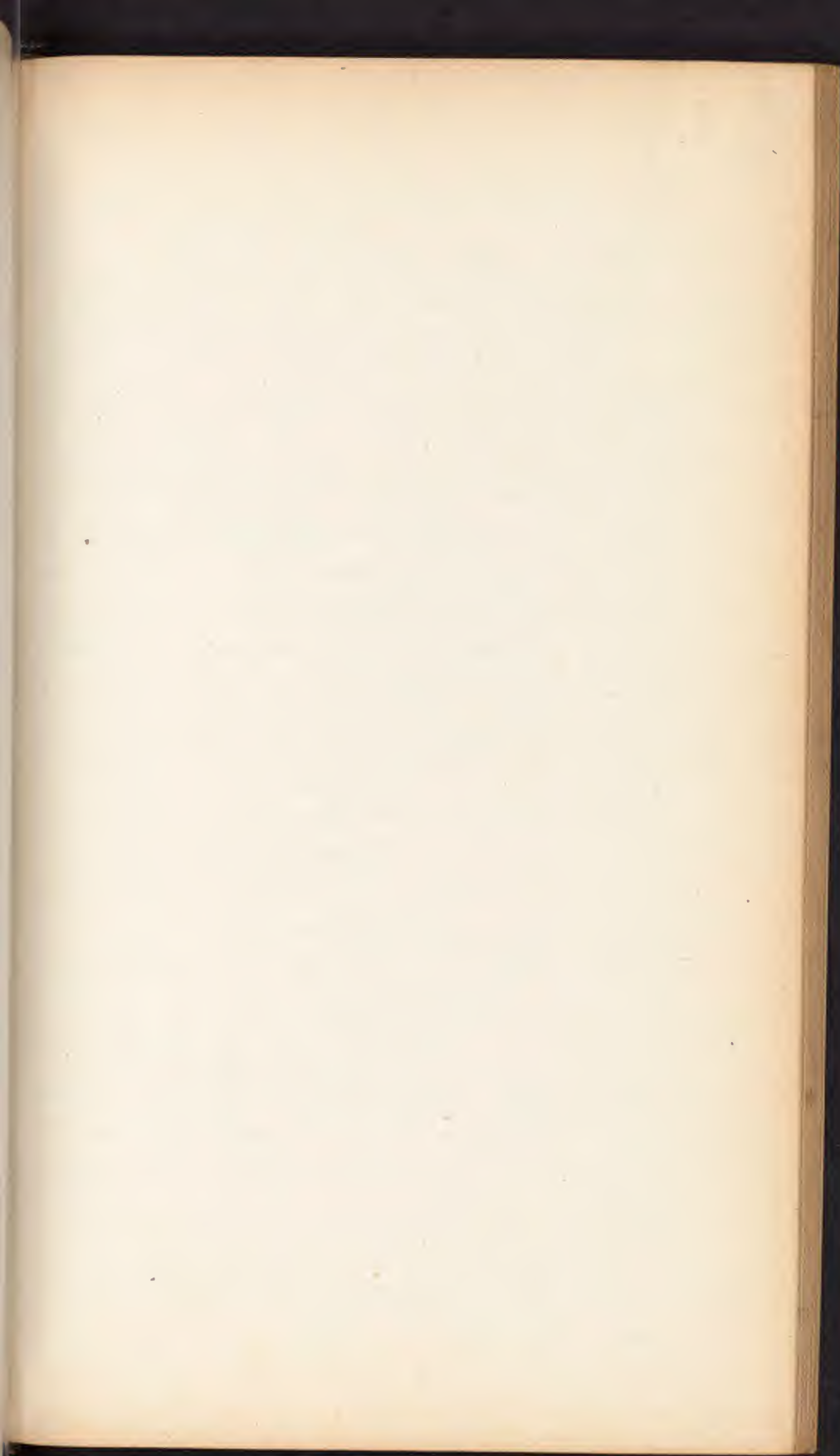
*Prognosis.*

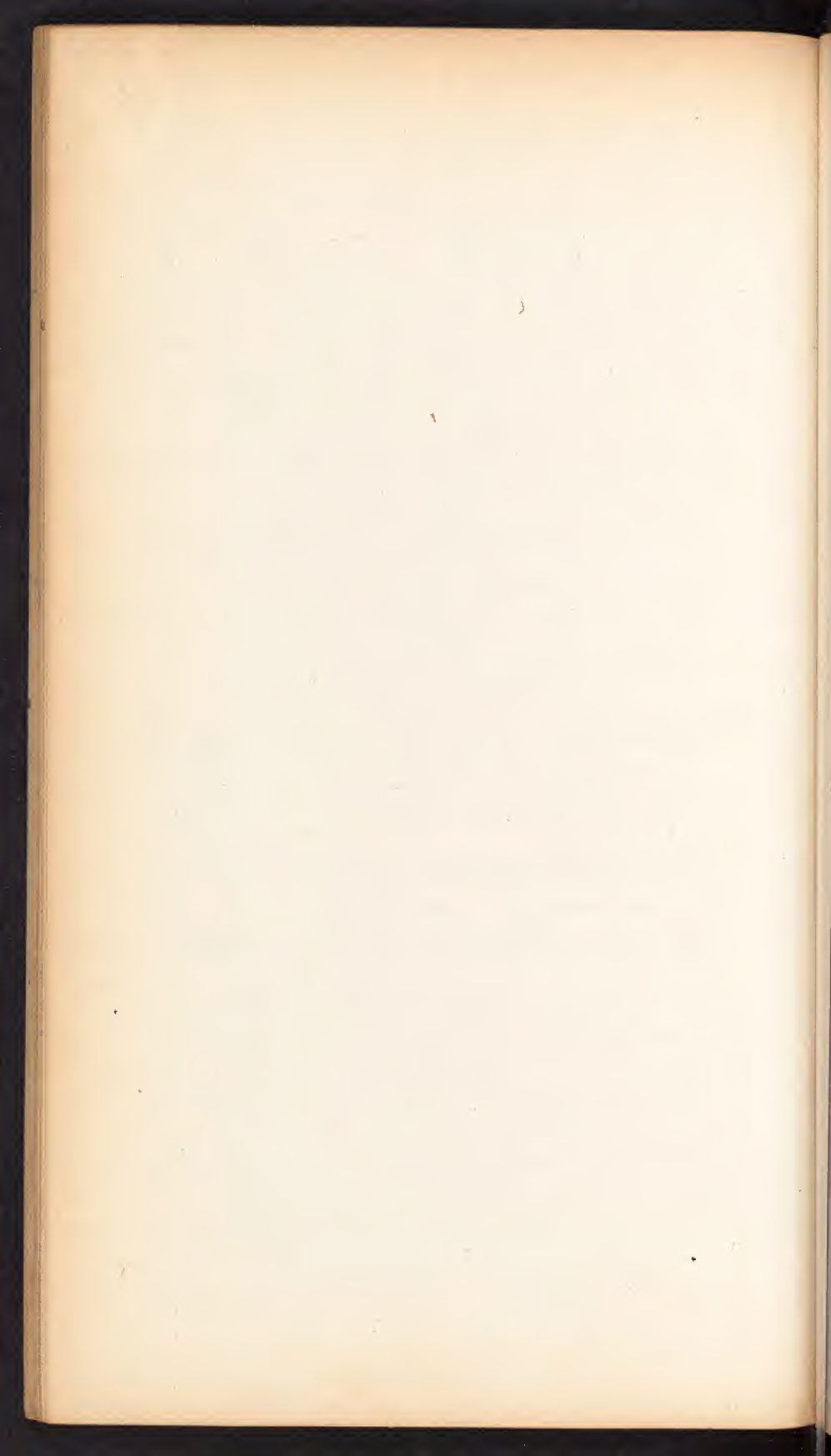
*Treatment.*

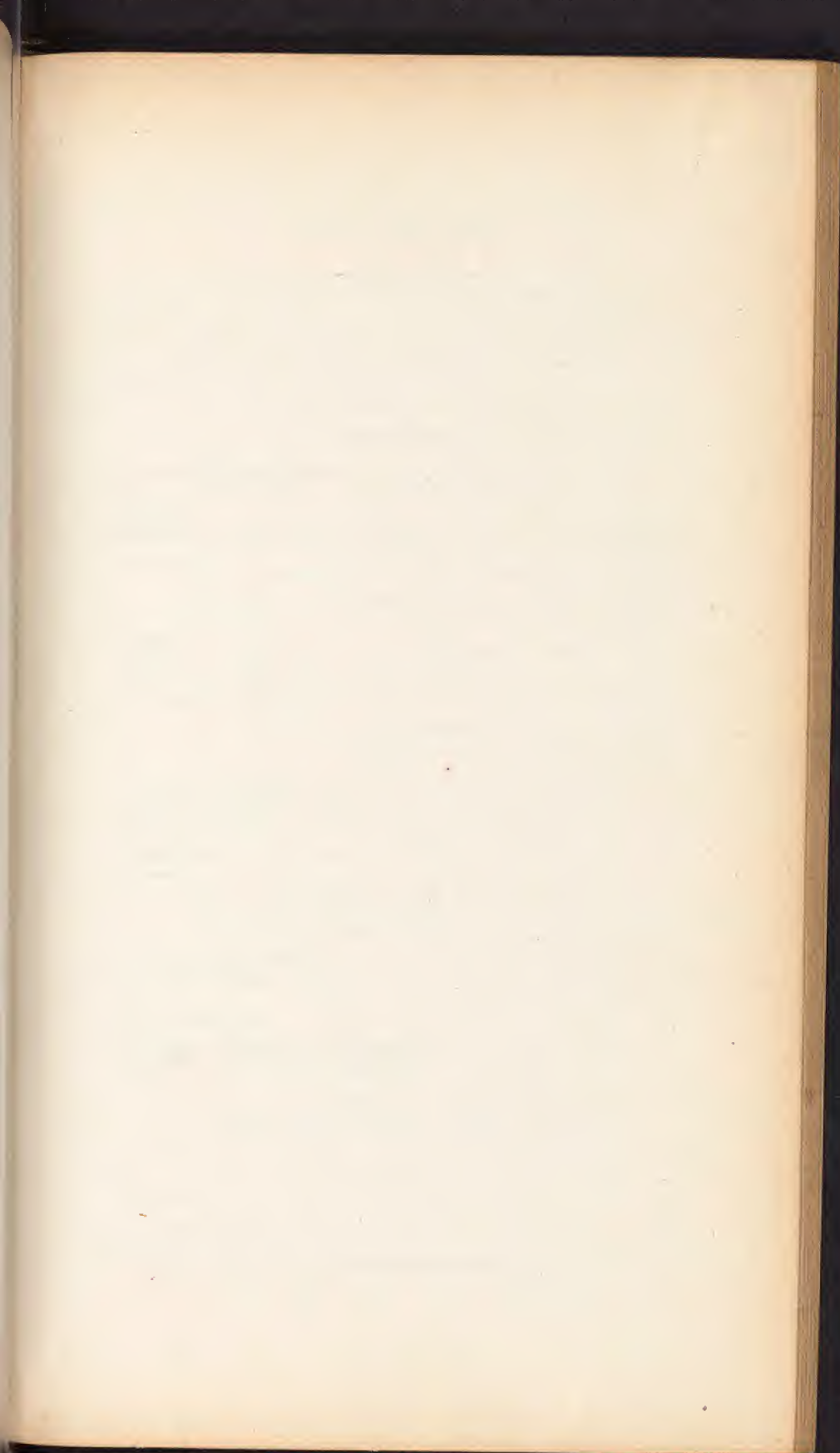




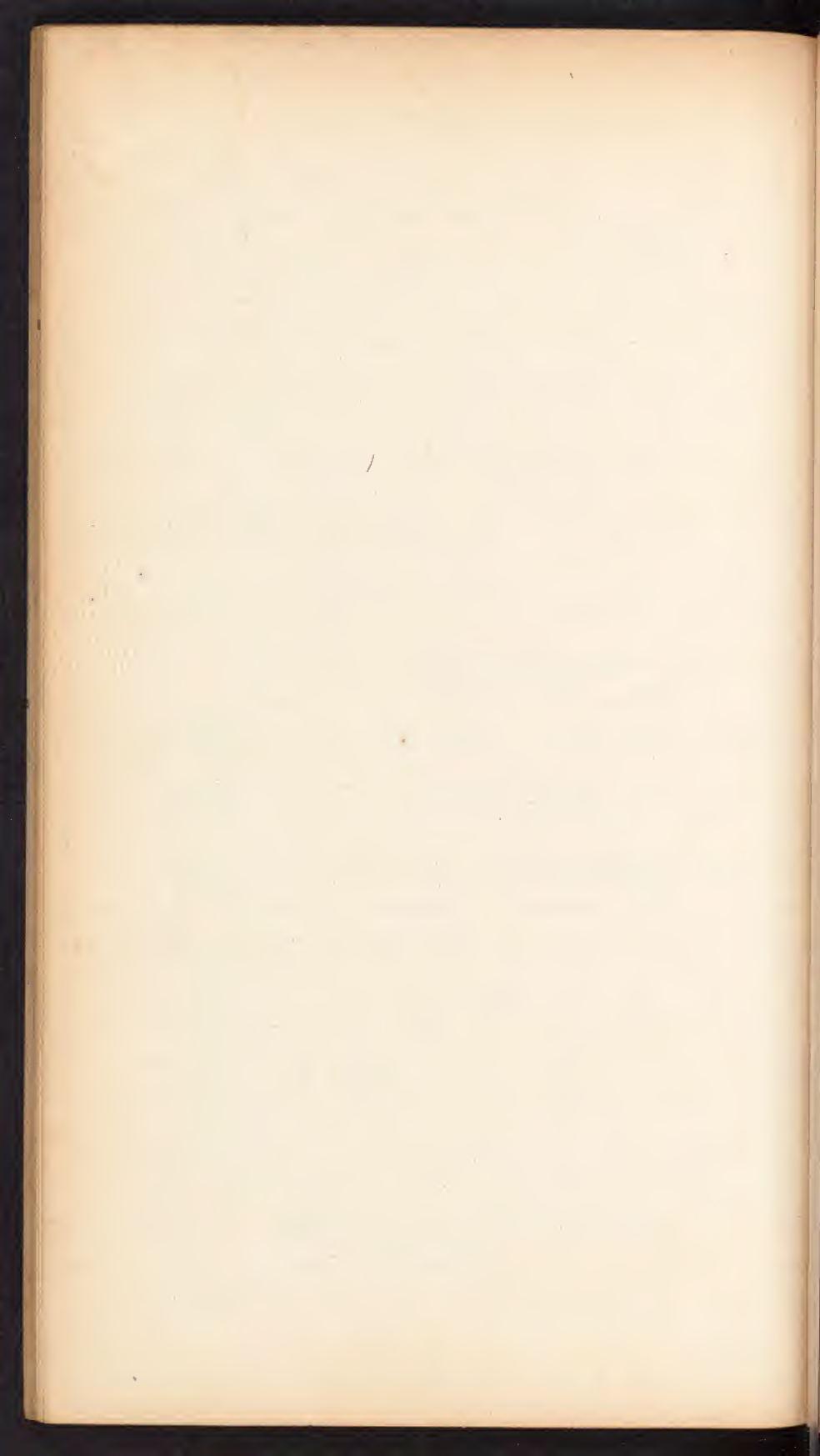












TUMORS OF THE VELUM.

See "Warren and others."

*Varieties.*

*Causes.*

*Symptoms.*

*Prognosis.*

*Treatment.*

INFLAMMATION.

*Varieties.*—Acute and chronic.

*Causes*

*Symptoms.*

*Prognosis.*

*Treatment.*

ABSCESS.

*Causes.*

*Symptoms.*

*Prognosis.*

*Treatment.*

ULCERS.

*Varieties.*

*Causes.*

*Symptoms.*

*Prognosis.*

*Treatment.*

CLEFT VELUM.

*Varieties.*—Vary in extent.

*Causes.*—Congenital.

*Symptoms.*

*Effect on the voice.*

*Prognosis.*—As regards a cure by operation.

*Treatment.*—Operation of staphyloraphia.

FISSURE AND OPENINGS OF THE HARD PALATE.

*Varieties.*

*Causes.*

*Symptoms.*

*Effect on the voice.*

*Prognosis.*

*Treatment.*—Operations of staphyloraphia and staphyloplasty.

AFFECTIONS OF THE UVULA.

- a. Cleft uvula.
- b. Hypertrophy of uvula.
- c. Enlarged uvula.
- d. Œdema of the uvula.
- e. Relaxation of the mucous membrane of the uvula.

*Causes in each of these defects.*

*Symptoms in each.*

*Prognosis in each.*

*Treatment in each.*

LODGEMENT OF FOREIGN BODIES IN THE FAUCES.

*Different kinds.*—Fish bones, bits of bread, pins and needles, a thimble, (see Parish,) &c.

*Symptoms developed by the lodgement of such matters.*

*Treatment.*

ENLARGEMENT OF THE TONSILS.

*Location of the gland.*

*Structure of the gland.*

*Different kinds of enlargement.*

- a. From acute inflammation.
- b. From chronic inflammation.
- c. From contagious inflammation, as is seen in *anginosa putrida*.
- d. From closure of the orifices of the follicles.
- e. From inspissation of its secretion.
- f. From calcareous deposits.

*Persons most liable.*—Children of a scrofulous diathesis.

*Causes.*—Vary with the kind of enlargement.

*Symptoms.*

*Effects on the thorax*—(see Warren.)

*Prognosis.*

*Treatment.*—Depends on the kind of enlargement.

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X. INJURIES AND DISEASES OF THE NECK.

I. SUPERFICIAL AFFECTIONS.

WOUNDS.

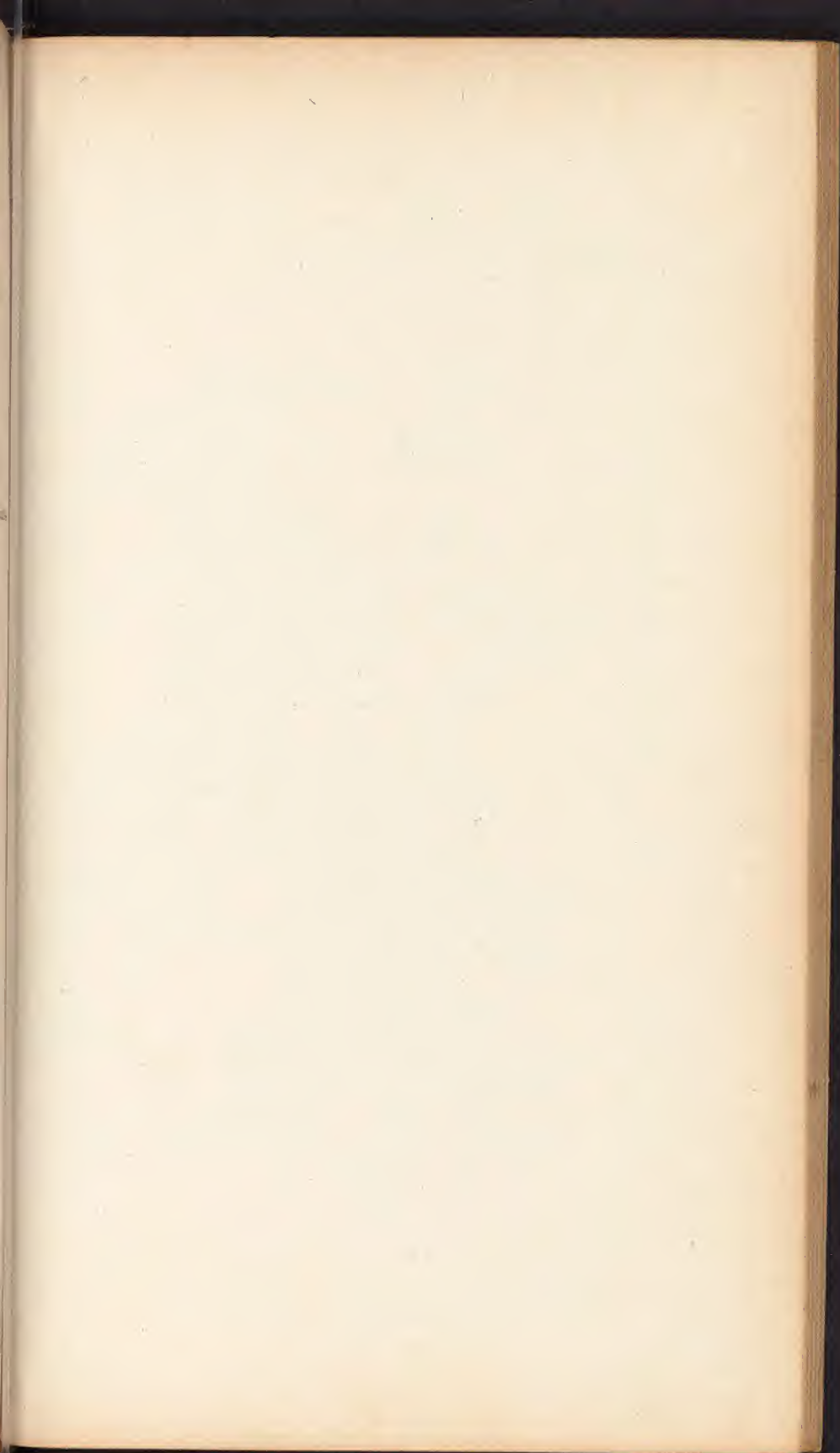
*Varieties.*

*Causes.*

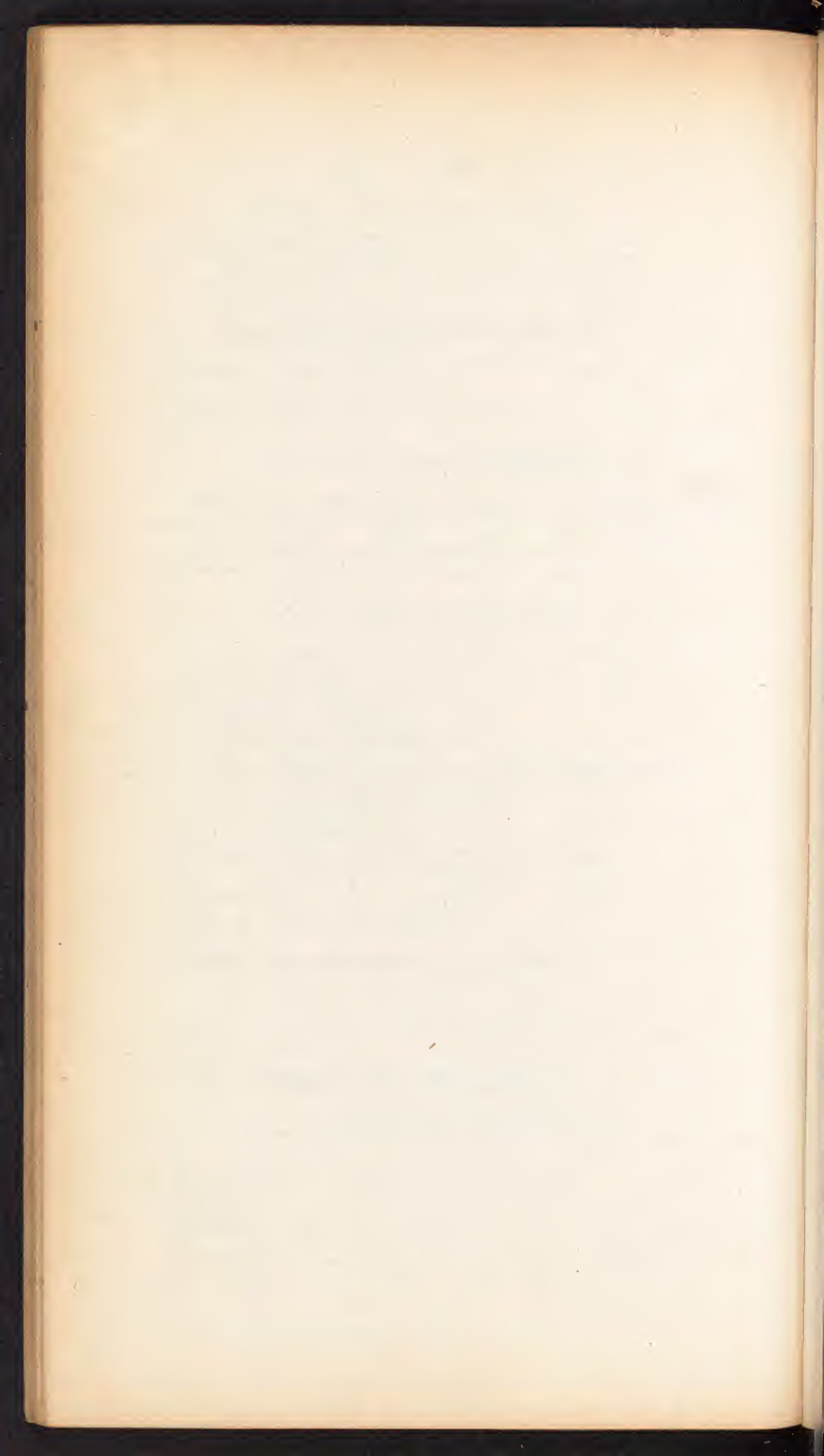
*Symptoms.*

*Prognosis.*

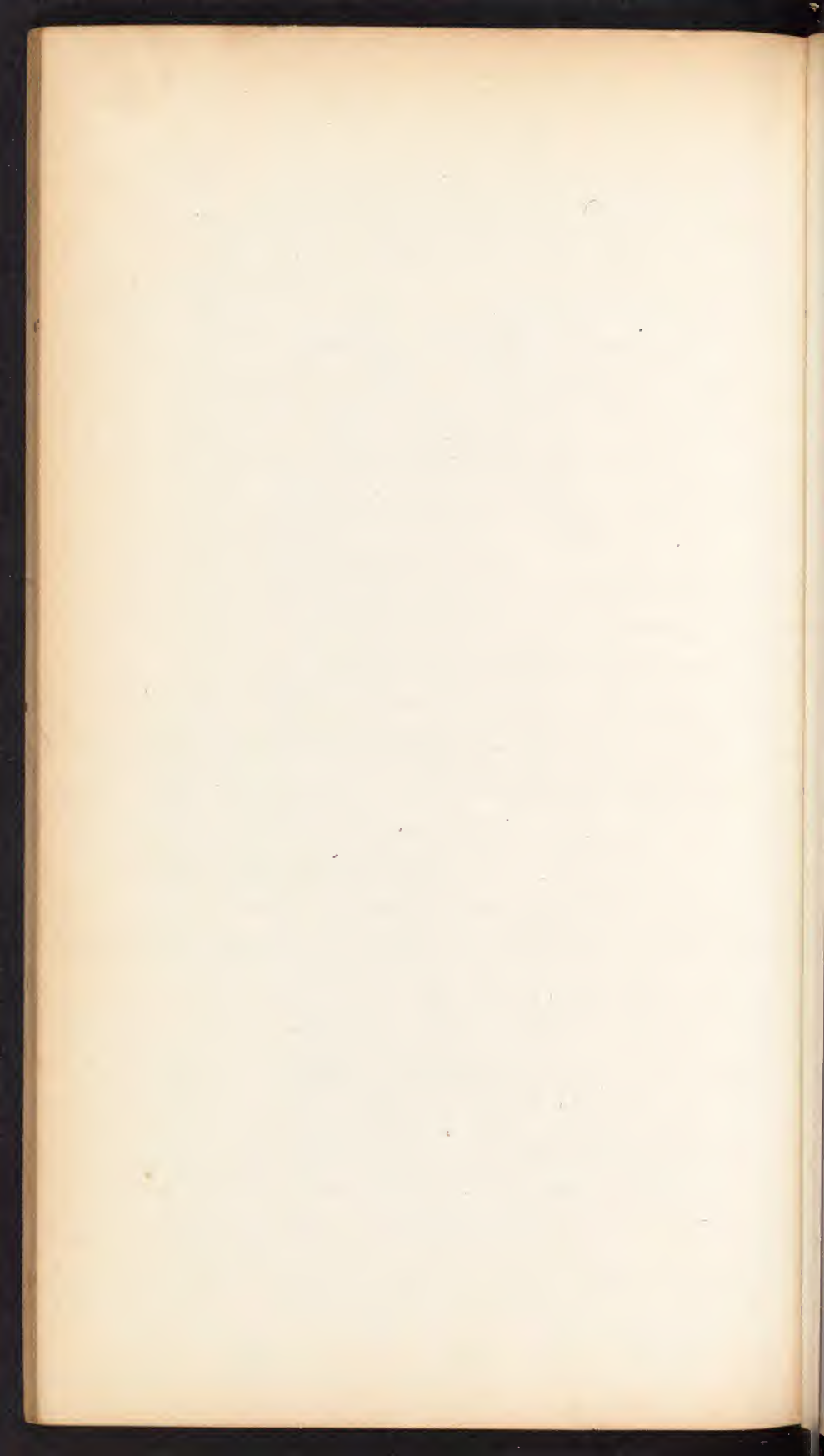
*Treatment.*

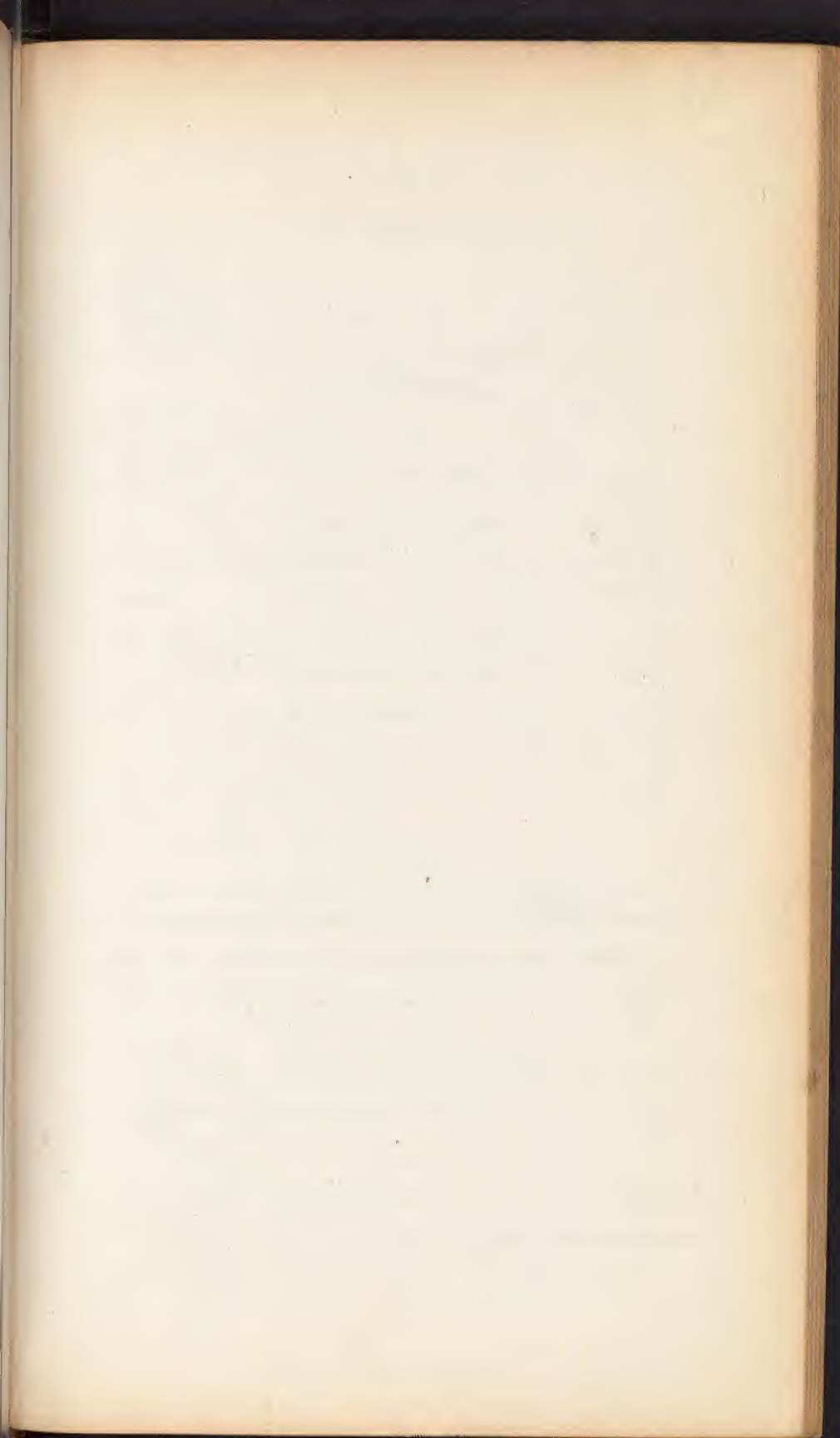




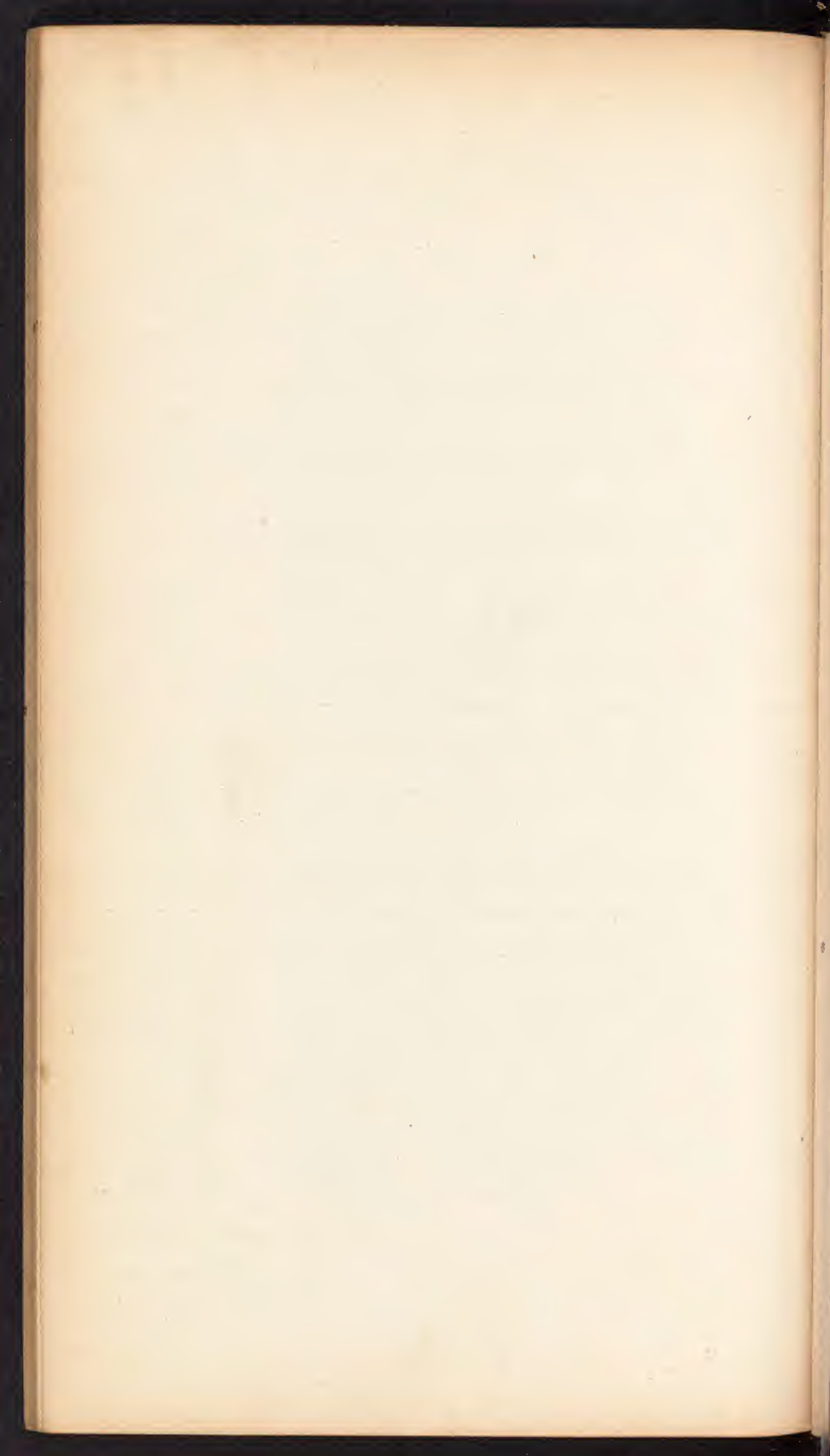












ABSCESS.

*Varieties.*  
*Causes.*  
*Symptoms.*  
*Prognosis.*  
*Treatment.*

ULCERS.

*Varieties.*  
*Causes.*  
*Symptoms.*  
*Prognosis.*  
*Treatment.*

TUMOURS OF THE NECK.

*Varieties.*—Simple and malignant.  
*Causes.*  
*Symptoms.*  
*Prognosis.*  
*Treatment.*

HYDROCELE OF THE NECK.

See "Maunoir."

*Definition.*  
*Causes.*  
*Symptoms.*  
*Prognosis.*  
*Treatment.*

BRONCHOCELE.

*Definition.*—Tumour of thyroid gland; from *Bronchos* the windpipe.  
*Synonymes.*—Gotre or goitre, tracheocele, Derbyshire neck, thyrophrasia, &c.

*Varieties.*—Simple, complicated, and malignant—(see N. R. Smith.)

*Age most liable.*

*Countries in which it is usually found.*

*Causes.*

*Symptoms.*

*Diagnosis.*—May be confounded with other tumours.

*Prognosis.*

*Complications.*—Often with disease of the heart.

*Treatment.*

a. Iodine.

b. Mercury.

c. Frictions with various liniments.

d. Operations of various kinds.

1. Electricity. 2. Caustics. 3. Seton. 4. Tapping when it contains a cyst. 5. Ligation of the thyroid arteries. 6. Extirpation.

*Examination of these different operations.*

HERNIA BRONCHALIS.

*Definition.*  
*Causes.*  
*Symptoms.*  
*Prognosis.*  
*Treatment.*

DEFORMITY FROM BURNS.

See "Chapter on Cicatrices."

TORTICOLLIS OR WRY NECK.

*Definition.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

II. AFFECTIONS OF THE LARYNX AND TRACHEA.

WOUNDS.

*Varieties.*  
*Causes.*  
*Symptoms.*  
*Prognosis.*  
*Treatment.*

INFLAMMATION.

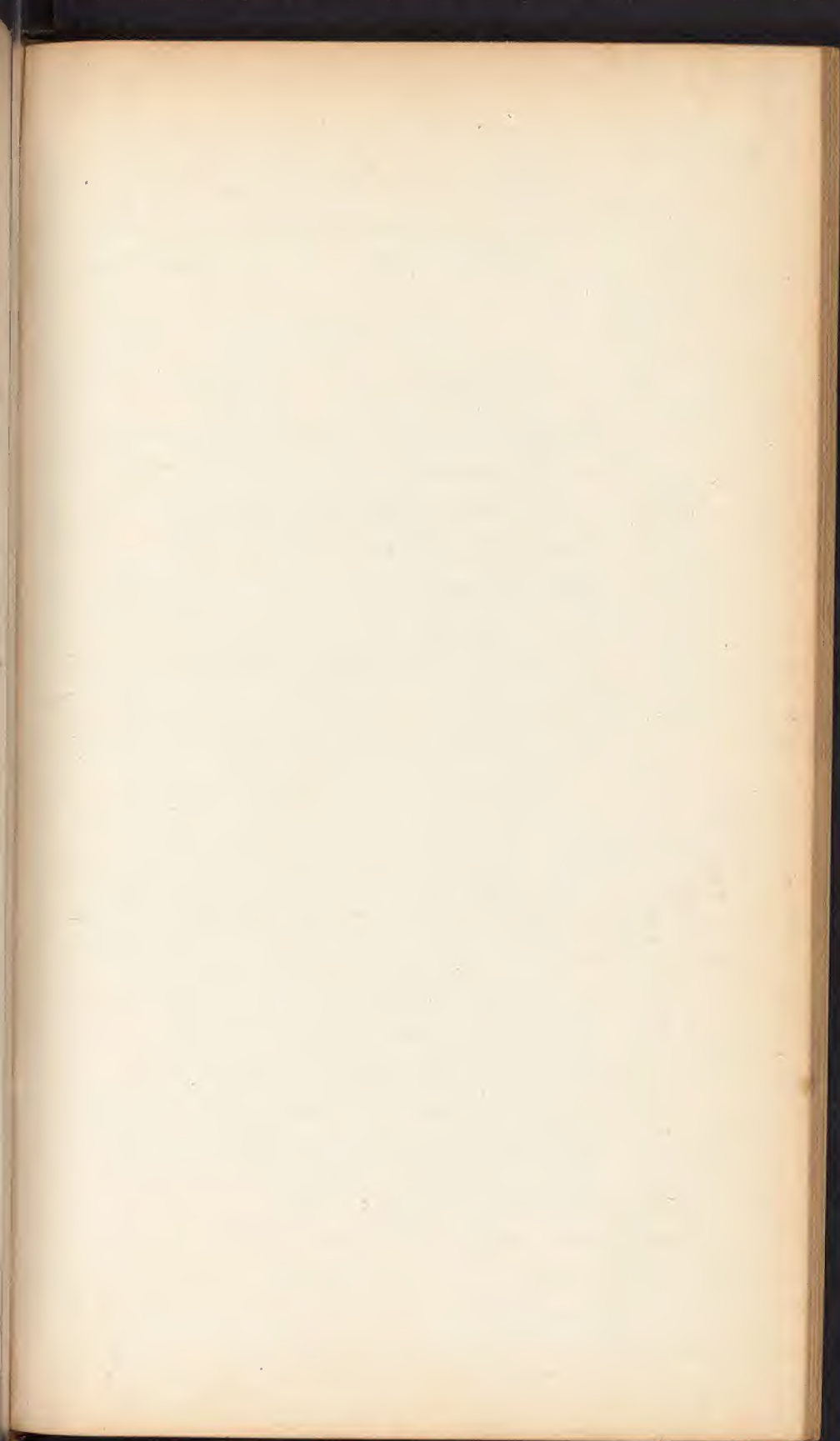
*Varieties.*—1. Acute and chronic.  
*Causes.*  
*Symptoms.*  
*Prognosis.*  
*Treatment.*

ABSCESS.

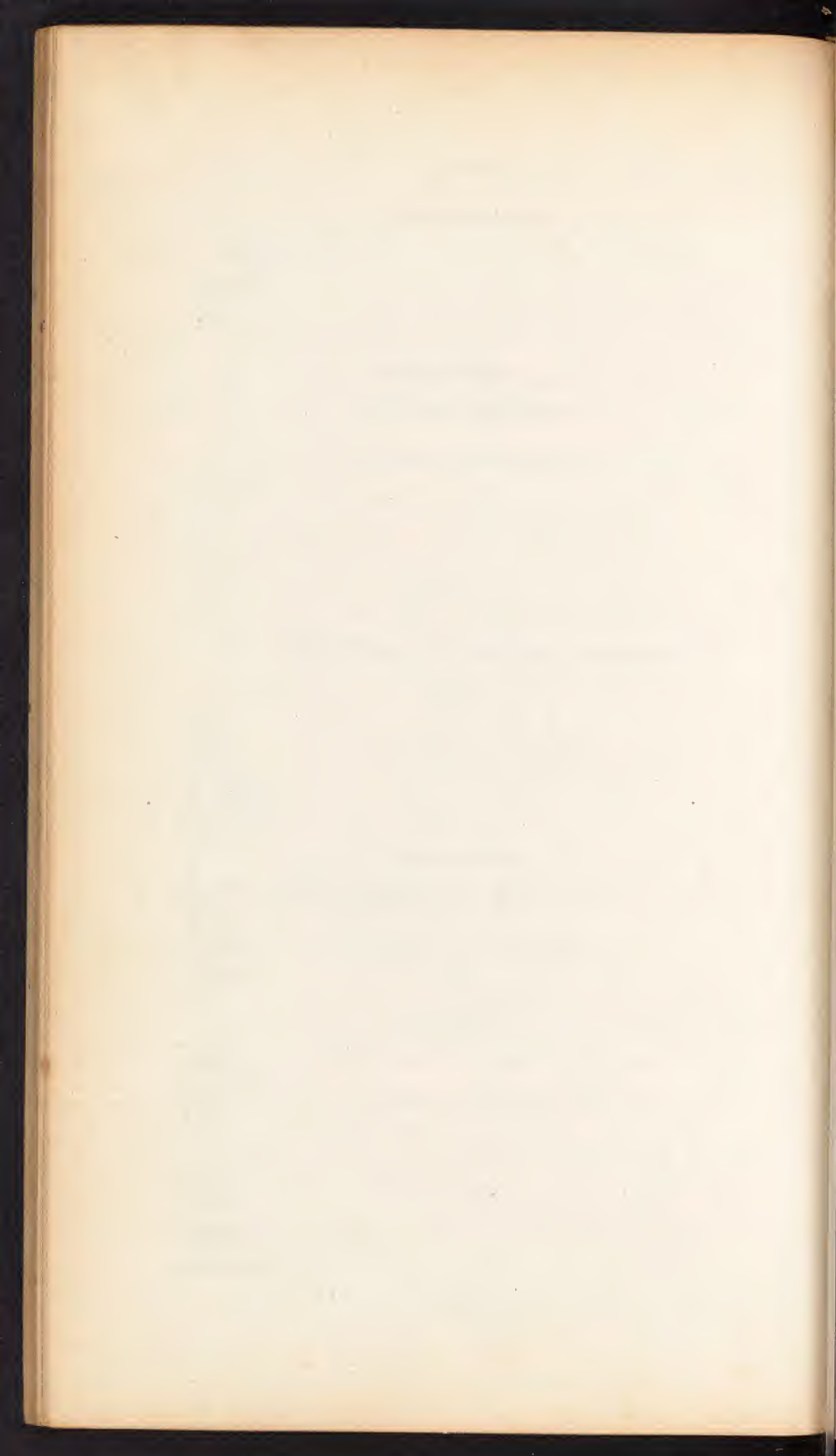
*Causes.*  
*Symptoms.*  
*Prognosis.*  
*Treatment.*

ULCERS.

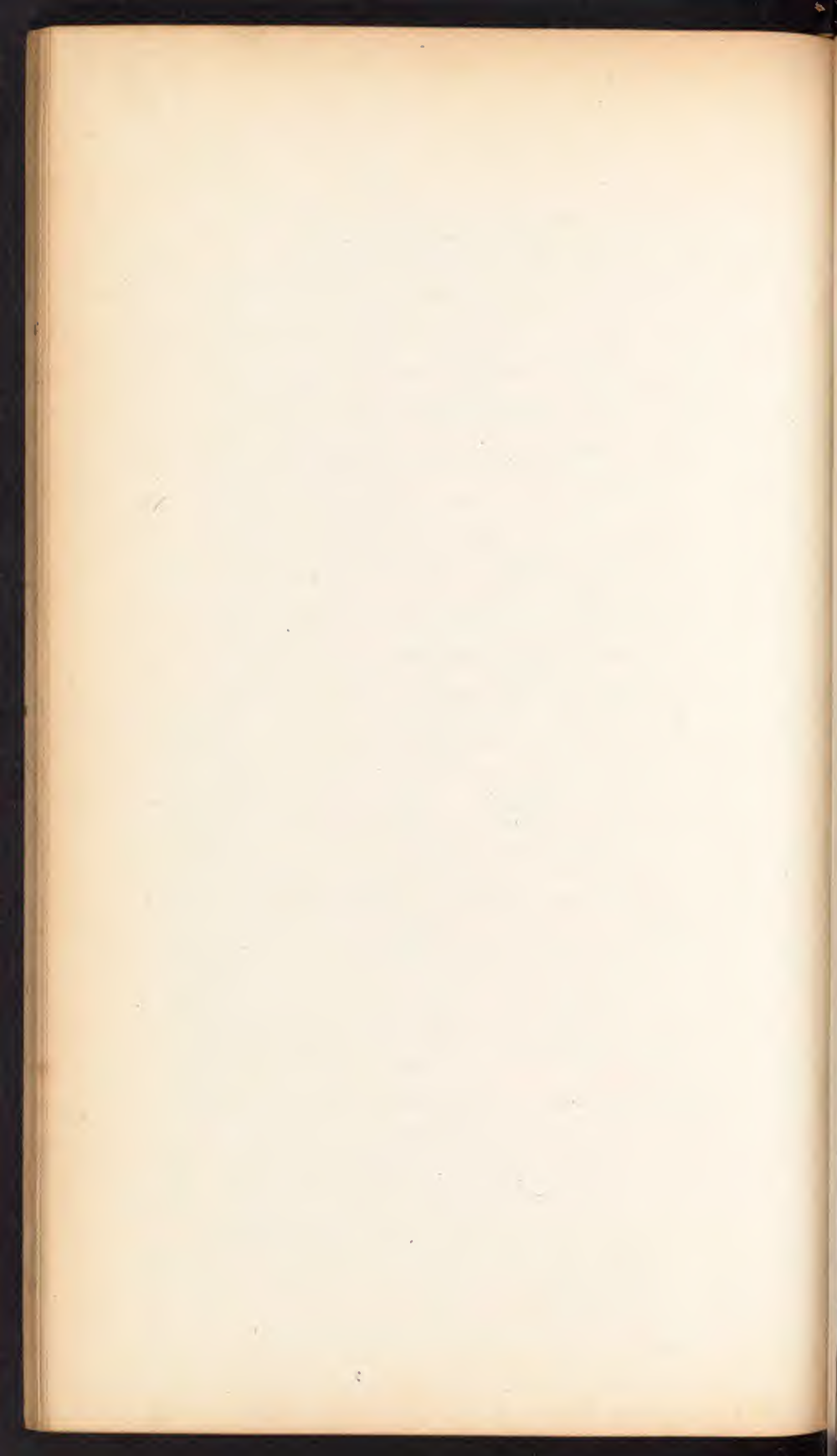
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

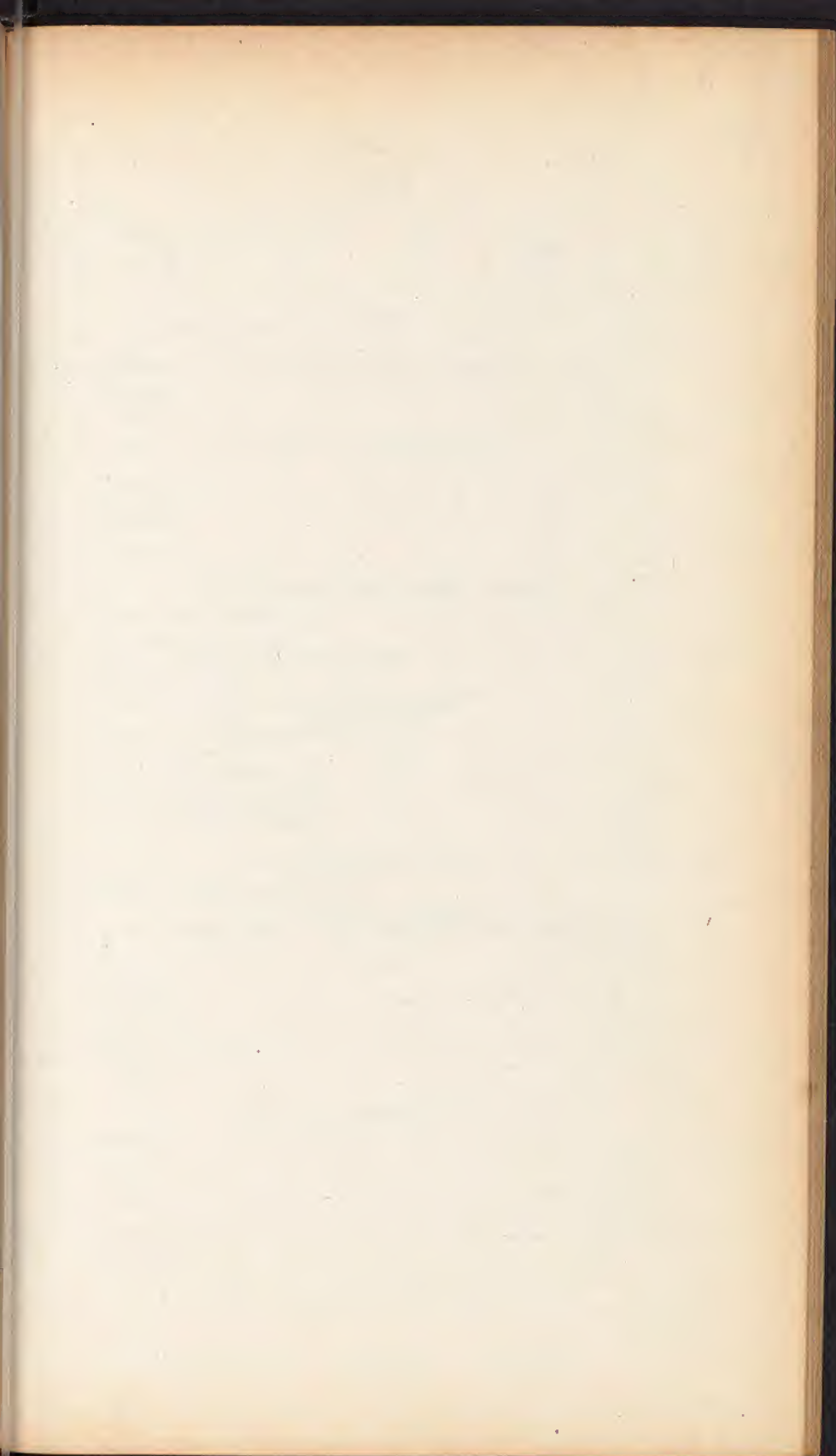




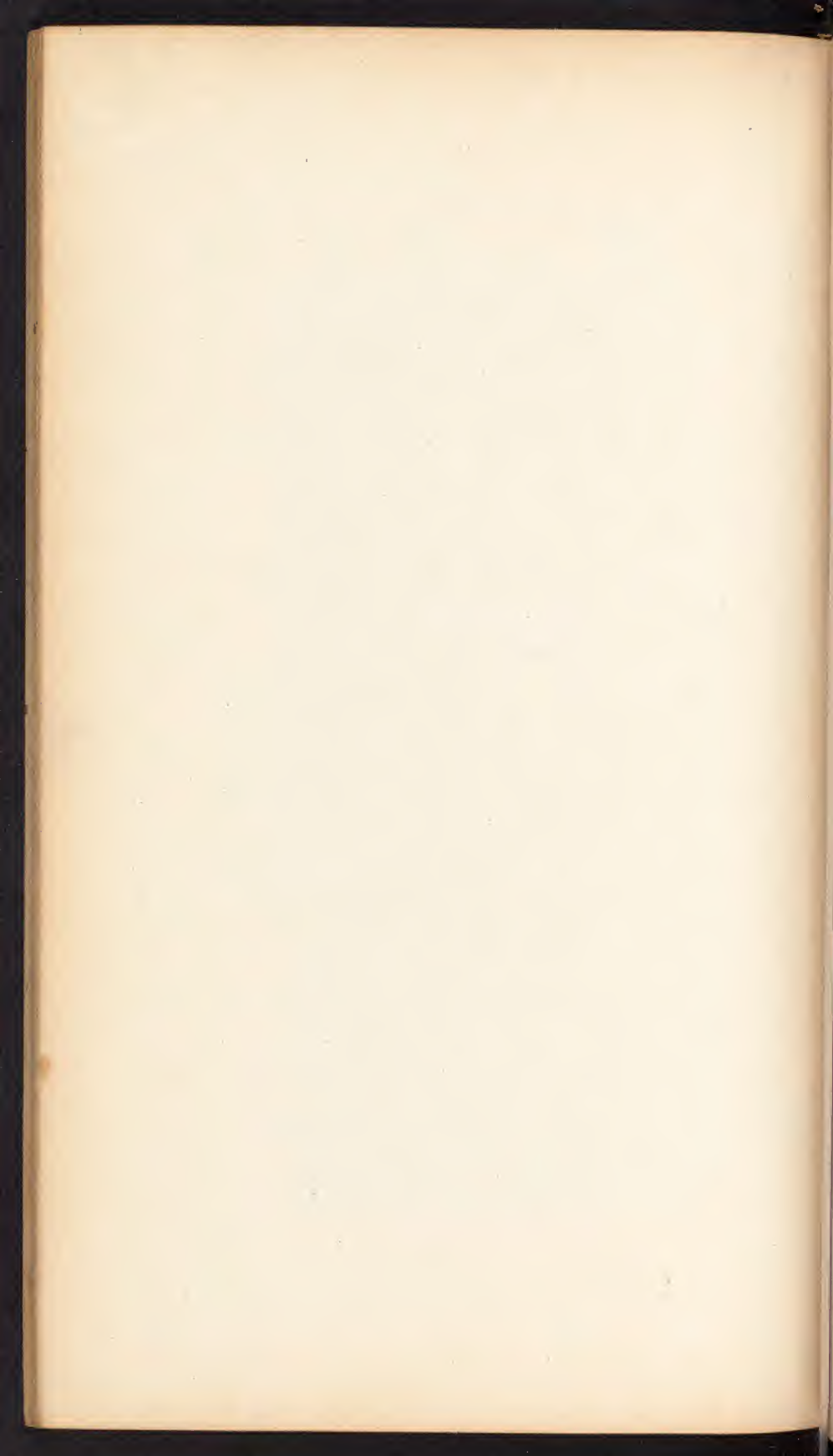












ŒDEMA.

*Causes.*  
*Symptoms.*  
*Prognosis.*  
*Treatment.*

SCALDS.

*Causes.*  
*Symptoms.*  
*Prognosis.*  
*Treatment.*

CARIES OF THE CARTILAGES.

*Causes.*  
*Symptoms.*  
*Prognosis.*  
*Treatment.*

FOREIGN BODIES IN THE LARYNX OR TRACHEA.

*Nature of these bodies.*  
*How introduced.*  
*Symptoms developed by their presence.*  
*Prognosis.*  
*Effects when the case is not promptly relieved.*  
*Treatment.*—Various operations.  
    *a.* Tracheotomy.  
    *b.* Laryngotomy.  
    *c.* Laryngo Tracheotomy.  
    *d.* Operation of Malgaigne.

ARTIFICIAL RESPIRATION.

*Manner of employing this measure.*

III. AFFECTIONS OF THE PHARYNX AND ŒSOPHAGUS.

WOUNDS.

*Varieties.*  
*Causes.*  
*Symptoms.*  
*Prognosis.*  
*Treatment.*

INFLAMMATION.

*Varieties.*  
*Causes.*  
*Location.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

ABSCESS.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

EXOSTOSIS OF CERVICAL VERTEBRÆ.

*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

TUMOURS.

*Varieties.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

ULCERS.

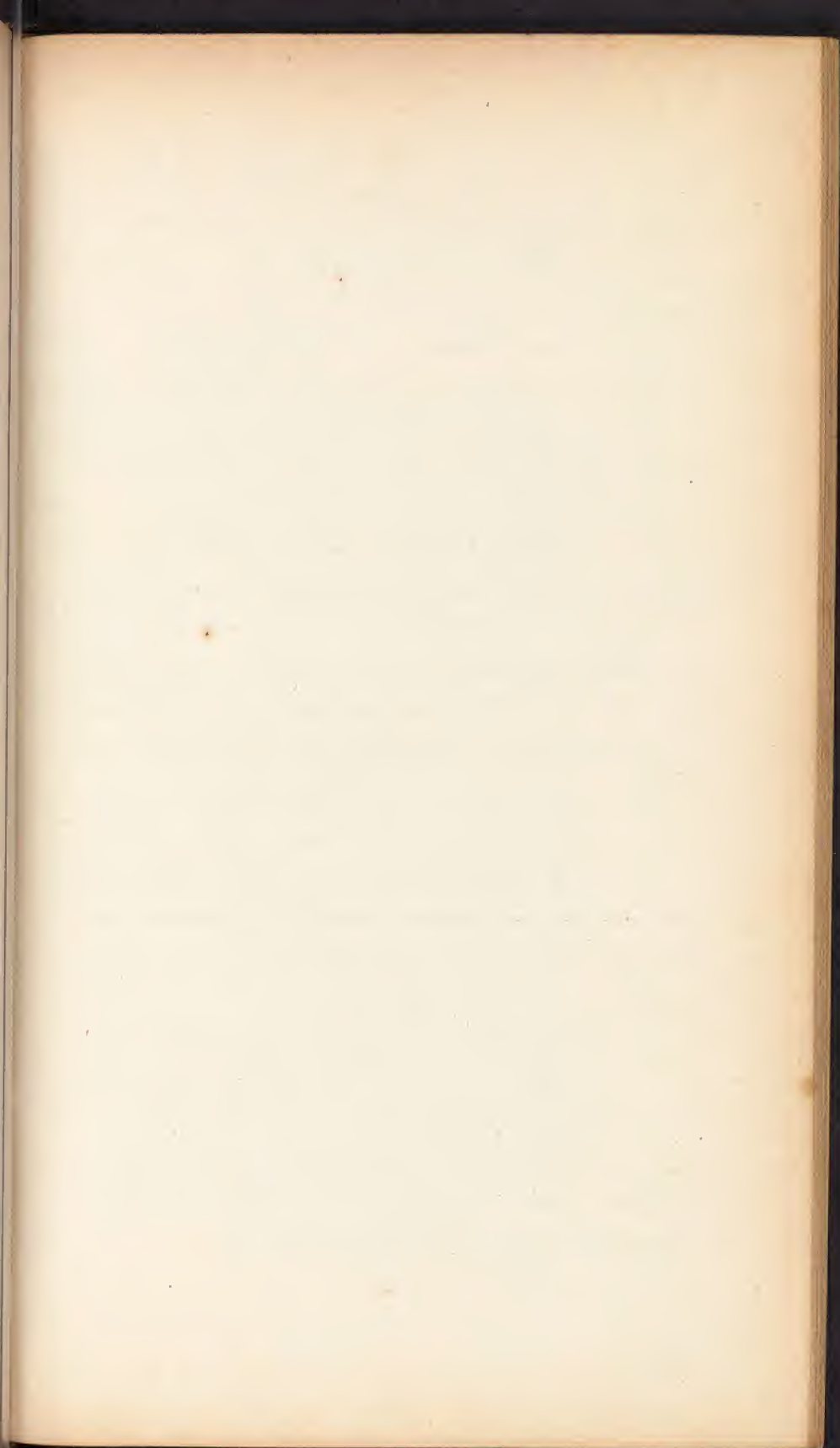
*Varieties.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

LODGE MENT OF FOREIGN BODIES.

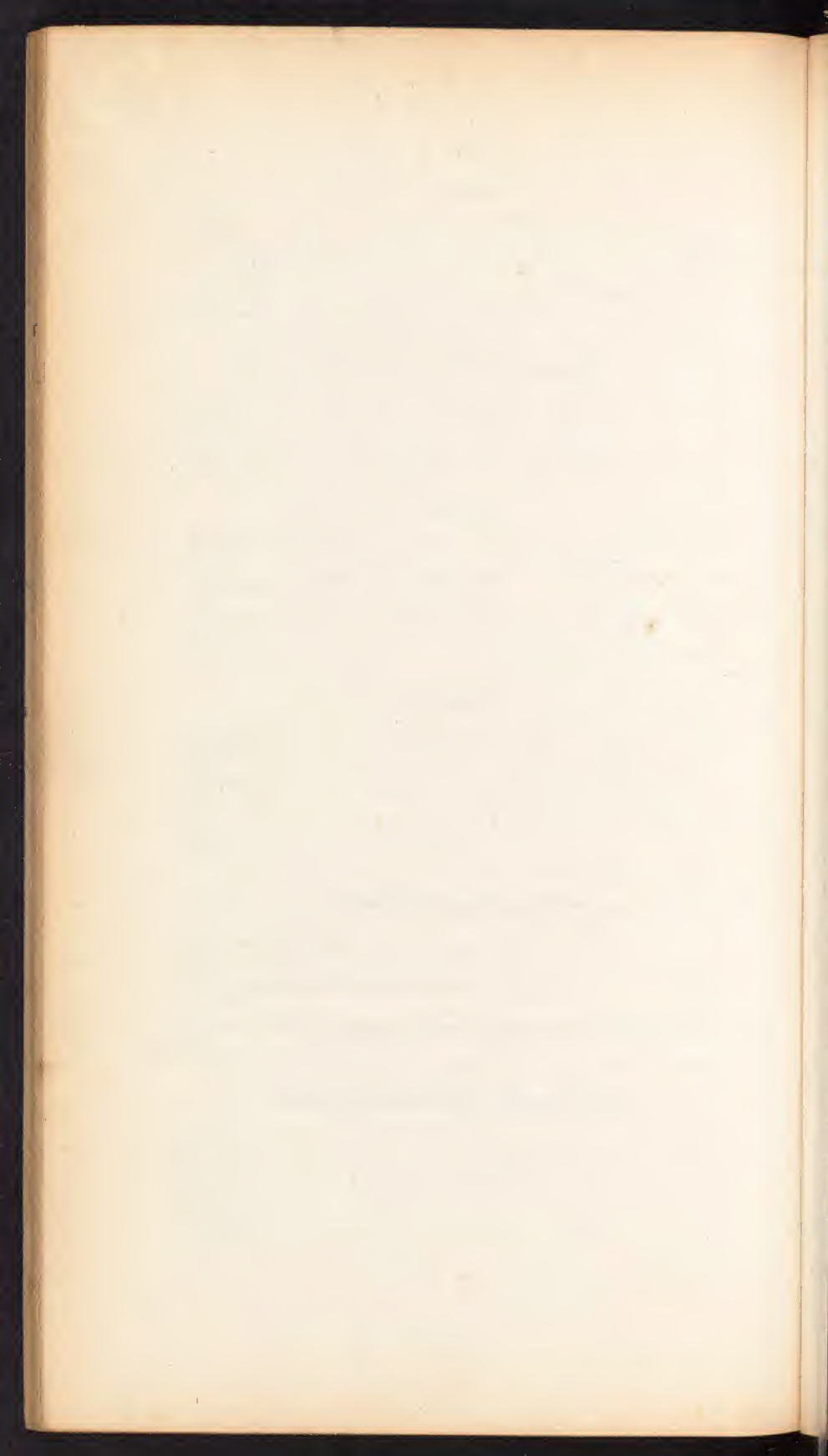
*Nature of these bodies.*  
*How introduced.*  
*Symptoms developed by their presence.*  
*Prognosis.*  
*Treatment.*—Various means, and as a last resort pharyngotomy or œsophagotomy.

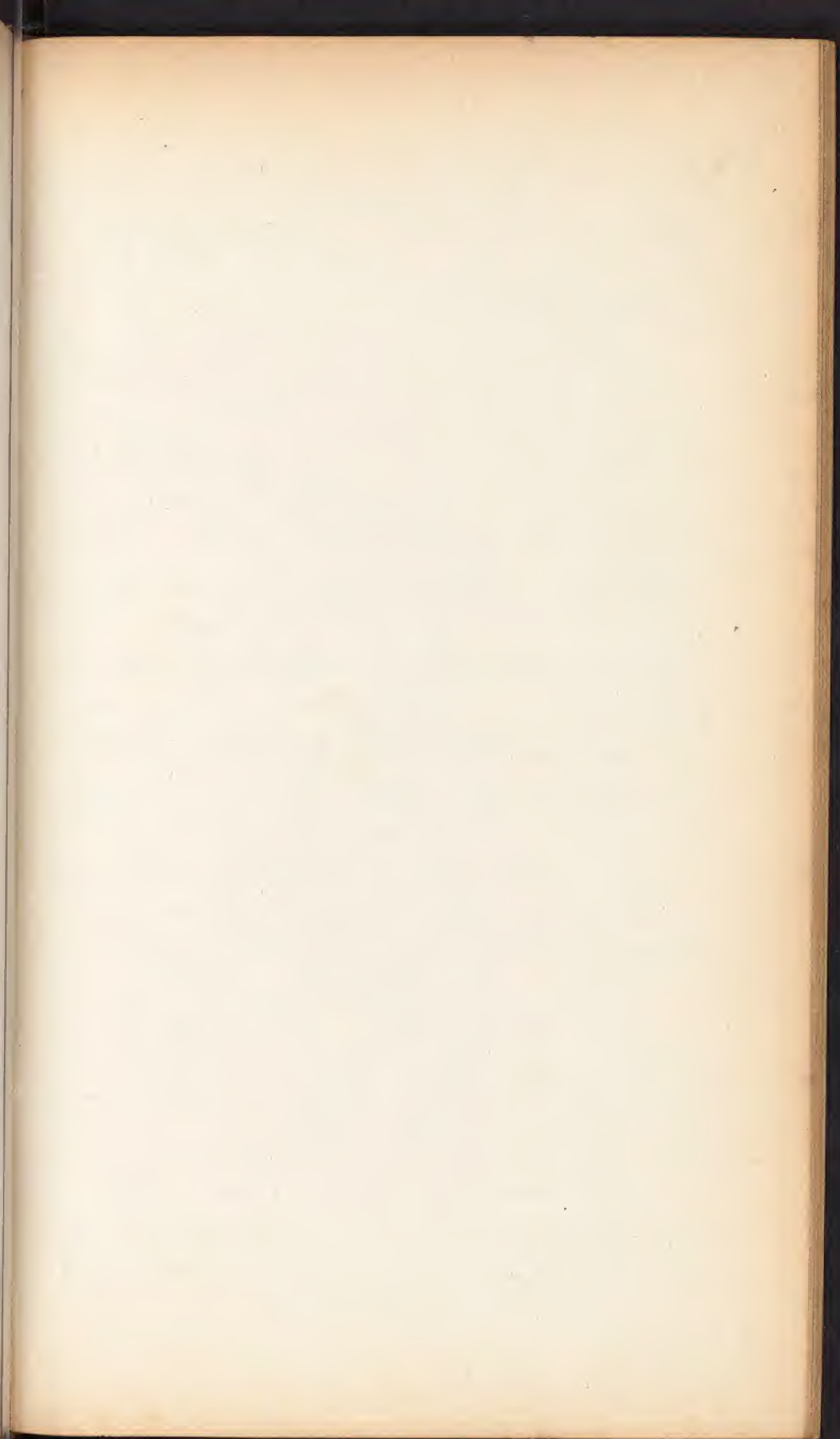
DILATATION OR POUCH OF THE ŒSOPHAGUS.

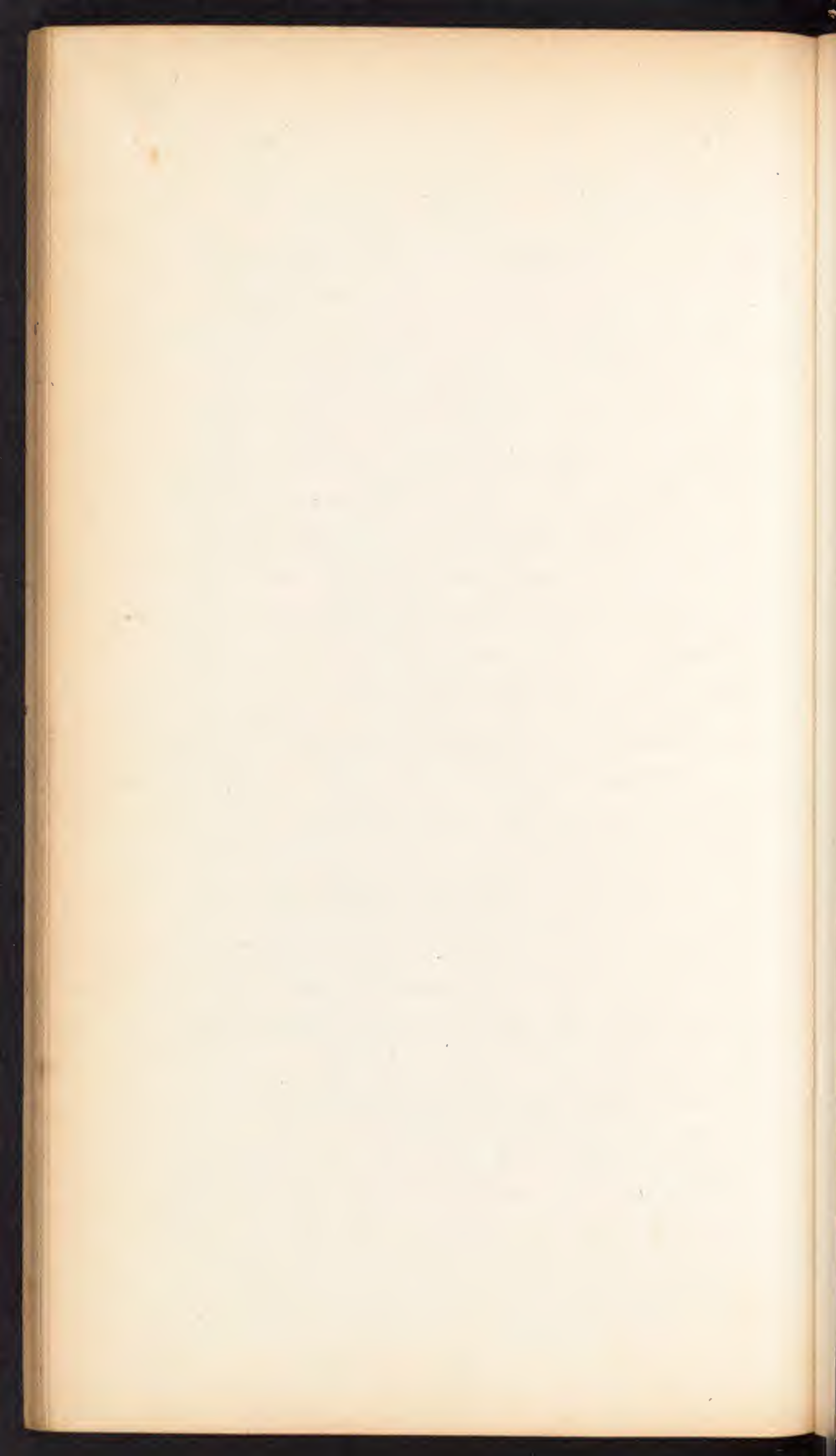
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

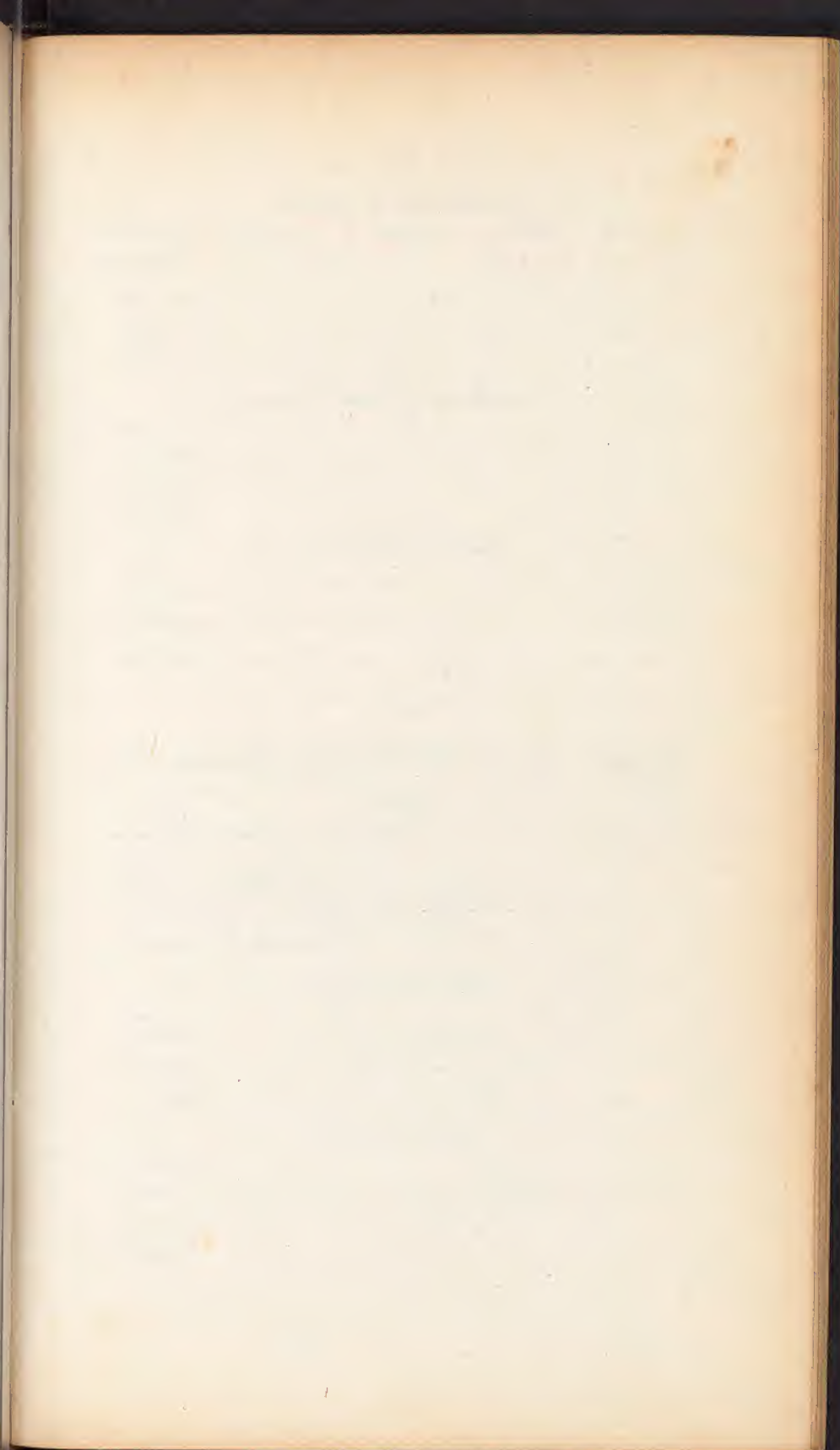




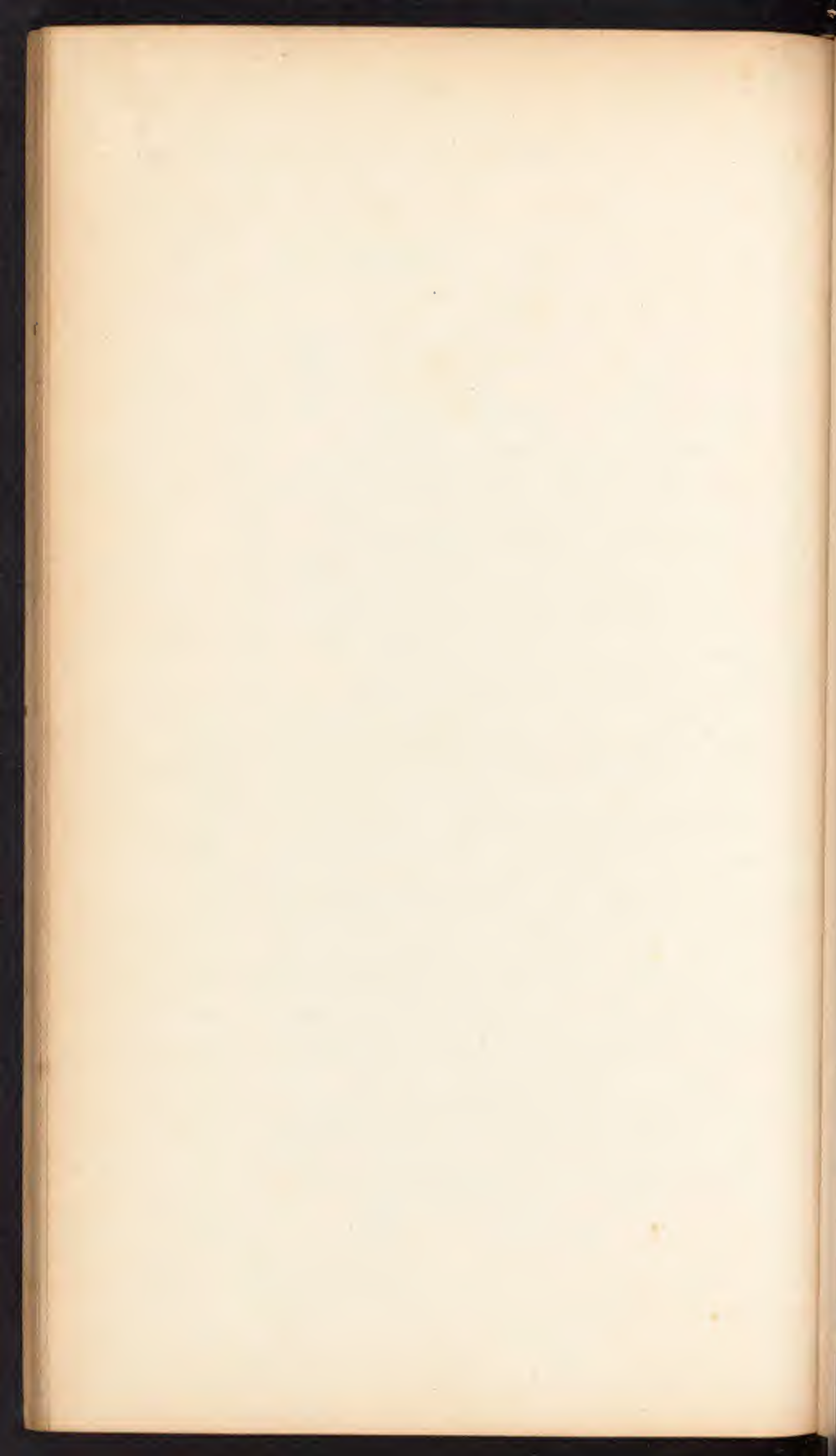












STRICTURES OF THE ŒSOPHAGUS.

*Varieties.*—1. Spasmodic. 2. Permanent. 3. Simple. 4. Malignant or cancerous.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

SPASM OR NEURALGIA OF ŒSOPHAGUS.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

PARALYSIS OF ŒSOPHAGUS.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

---

XI. INJURIES AND DISEASES OF THE THORAX.

WOUNDS.

*Varieties.*—Superficial and penetrating.

*Causes.*

*Symptoms.*—In each form.

*Prognosis.*—Depends on nature of the wound, &c.

*Effects produced by a simple wound of the chest.*

*Treatment.*—In each variety.

WOUNDS OF THE LUNGS.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

HERNIA PULMONALIS.

*Definition.*

*Causes.*

*Symptoms.*

*Prognosis.*

*Treatment.*

WOUNDS OF THE HEART.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

WOUNDS OF THE INTERCOSTAL ARTERY.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

EMPHYSEMA.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

EMPYEMA—HYDROTHORAX—HYDROPS PERICARDII.

See "Chapter on effusions."

CARIES OF THE RIBS.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

TUMOURS OF THE RIBS.

*Varieties.*  
*Causes.*  
*Symptoms.*  
*Prognosis.*  
*Treatment.*

FRACTURES OF THE RIBS.

See "Fractures."

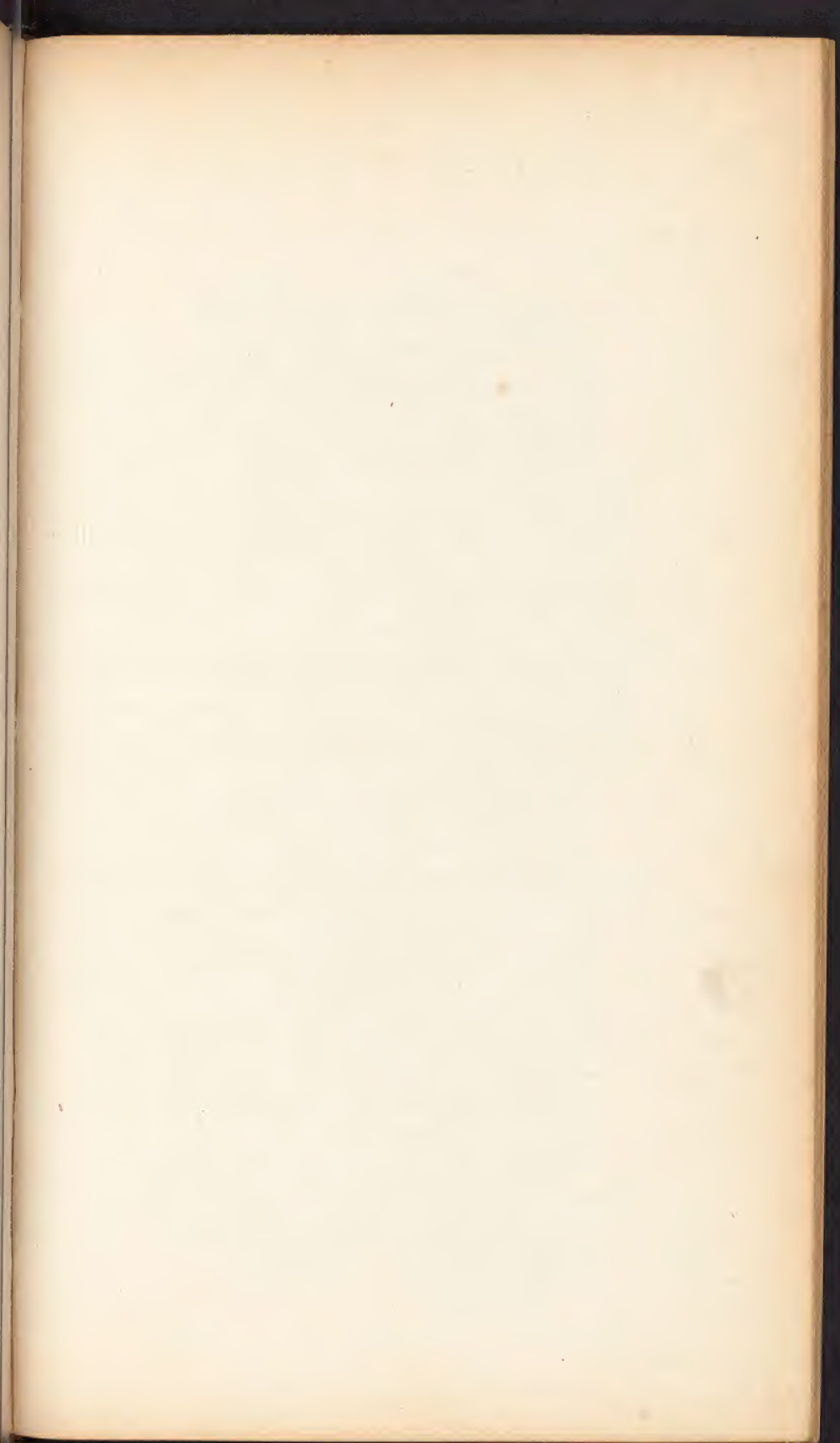
PARACENTESIS THORACIS.

See "Effusions."

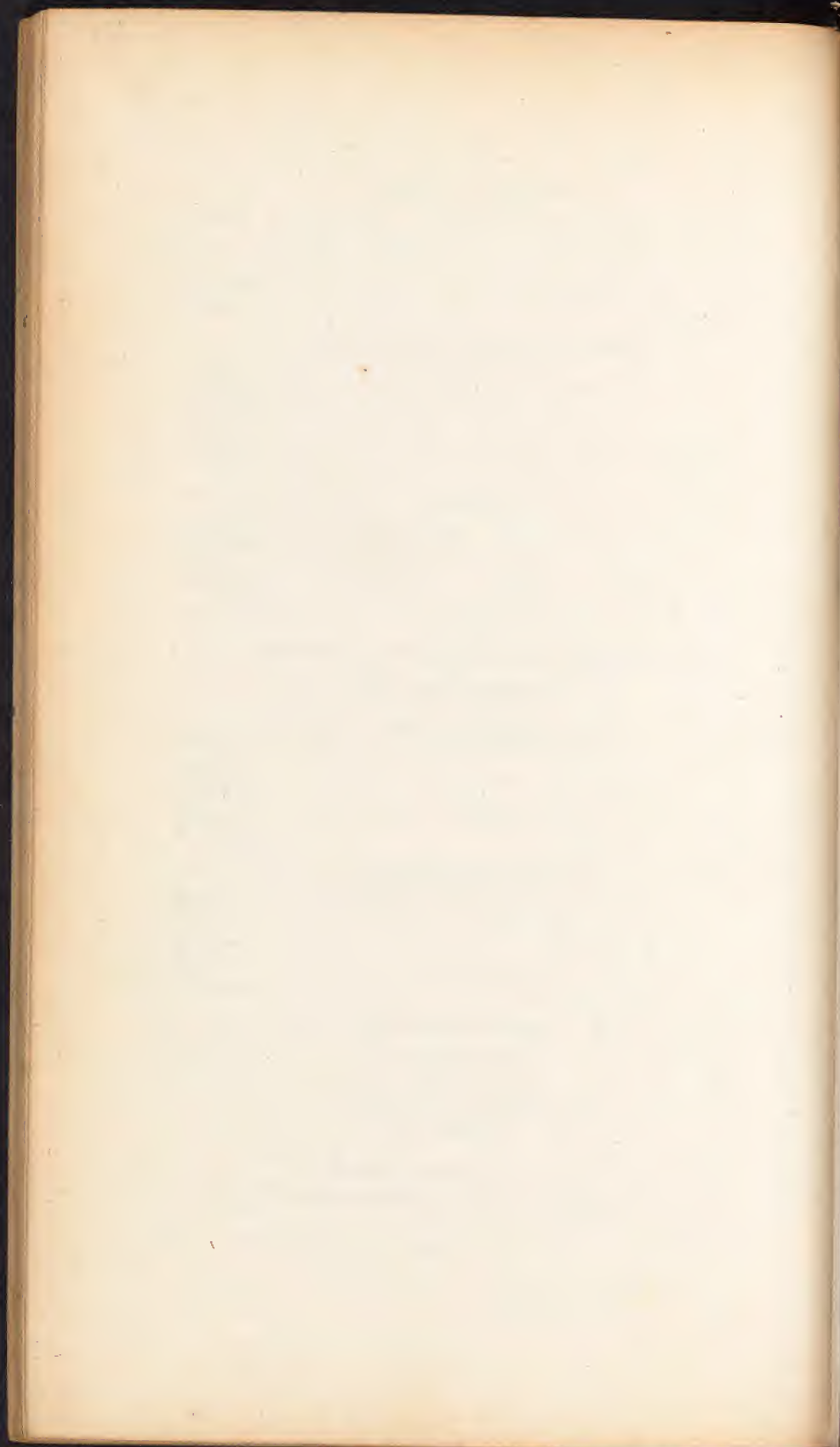
DISEASES OF THE MAMMARY GLAND.

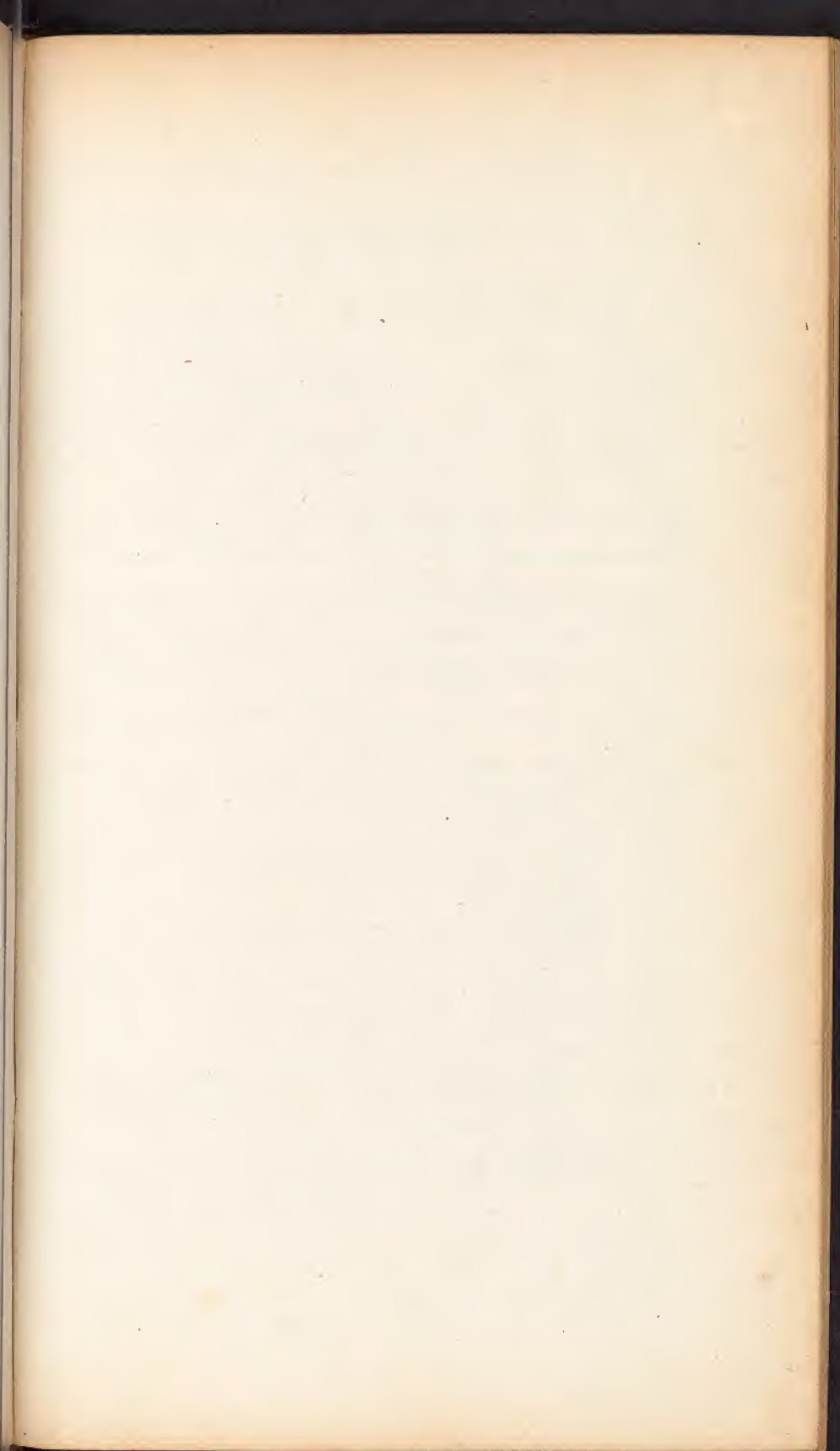
See "Amputation and diseases of females."

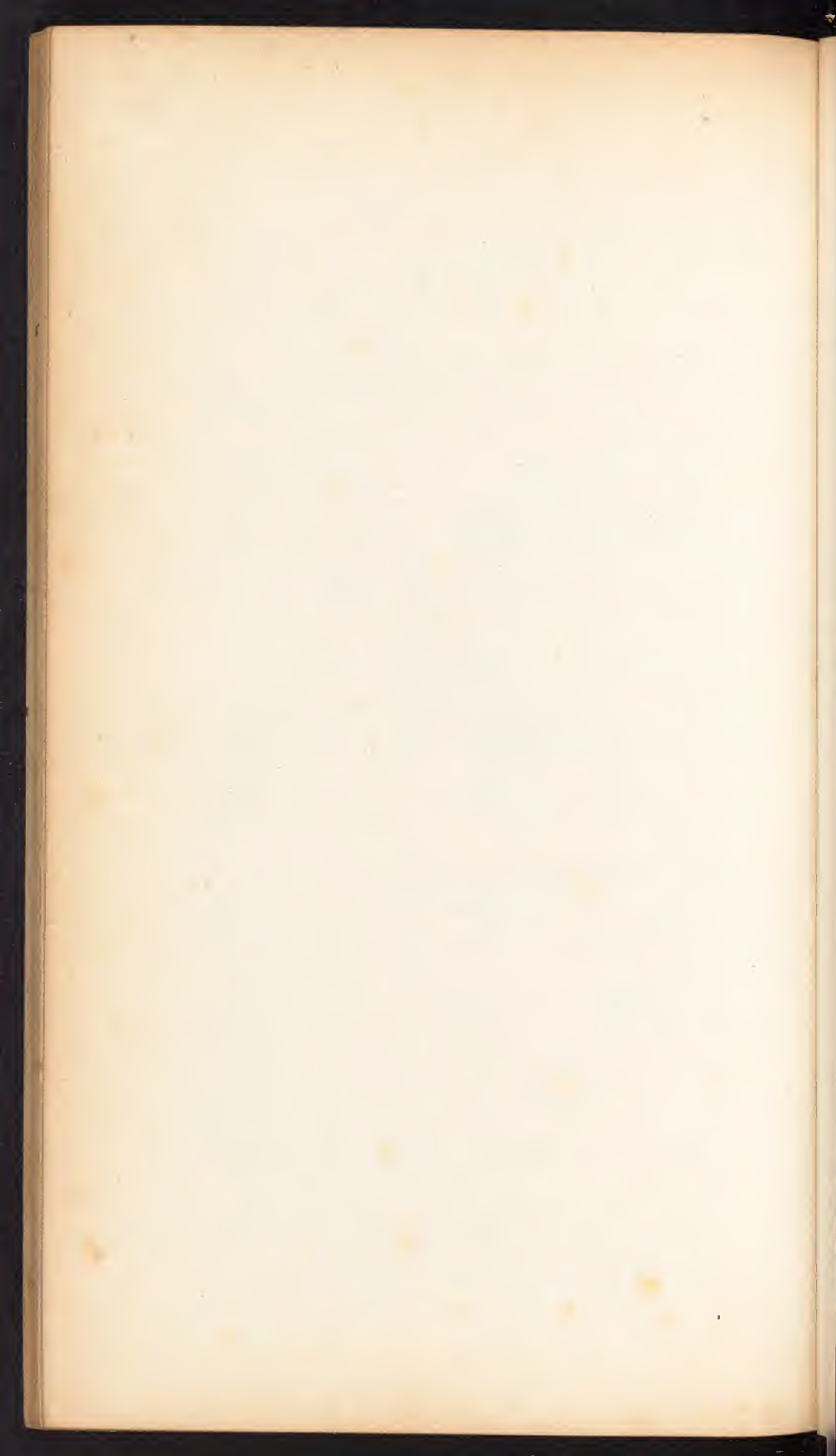
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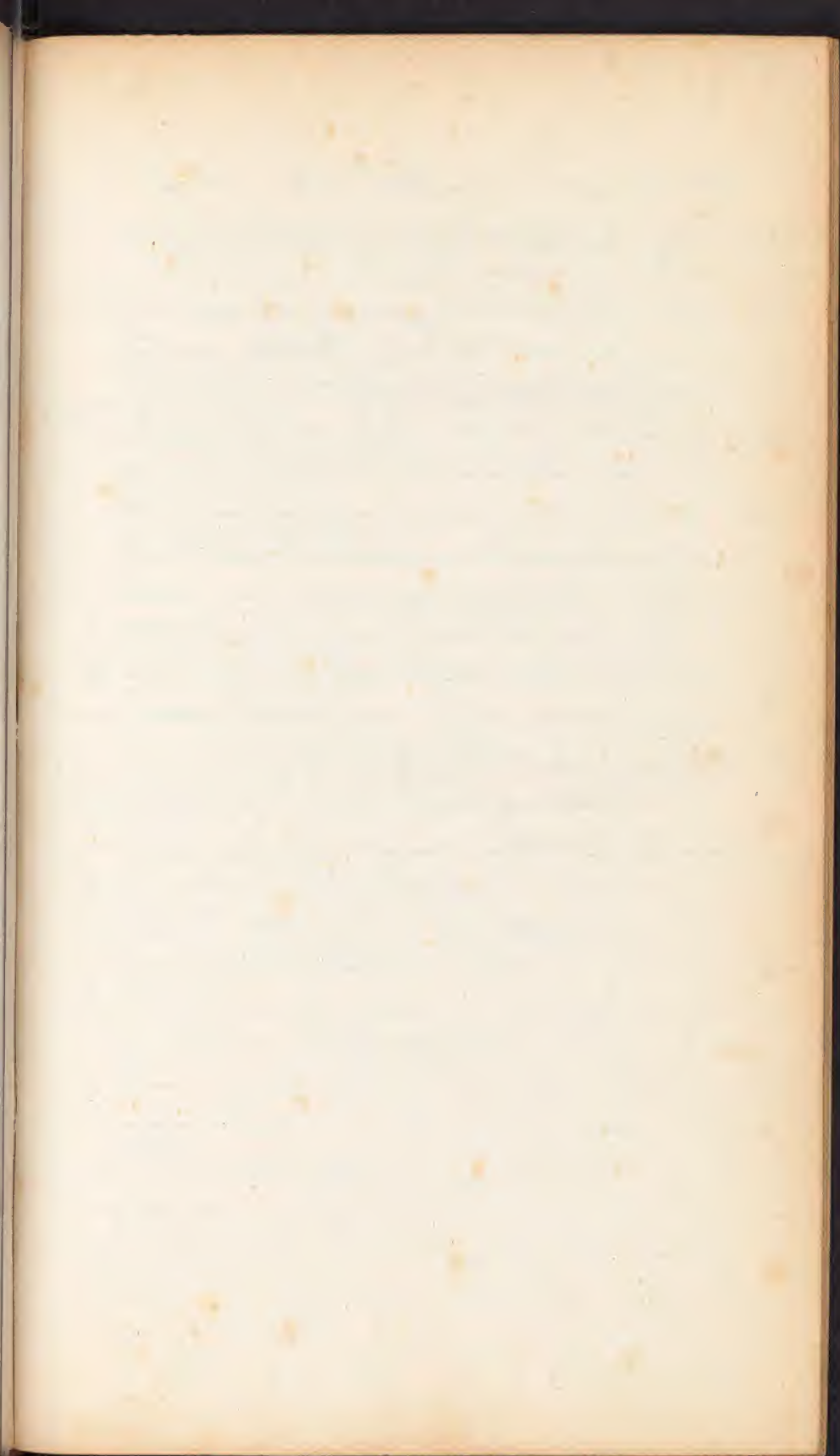














Superficial Wounds - Don't use  
the stick if can help it - if patient has  
put on warm fomentation, if strong  
put cold water dressing - If a  
man gets a severe RICK and  
wound, Peritoneal Inflammation the  
muscular atrophy, the stick passes  
between Peritoneum and Skin may  
cut a large artery, find a hard  
cylinder, a tube full of blood  
if tube lodges superficial cut  
it out, if don't get it out cut  
suppuration will gradually get it out  
hemorrhage goes on cut down and  
tie, casting but avoid it if possible -  
Penetration, the wound  
contaminated parts are around, and the  
rest, suppose a spear - the wound  
may or not protrude, as the blood  
is not if deep - Scattered red  
wounded, have internal, never stick  
left him, on his hands if possible  
died from a wound to the side of neck  
if you can take the vessel  
have arrest him - pass your stick  
through skin, began early and Phil  
treat, don't force If handle  
hemorrhage, Peritoneal Inflammation  
suppuration in the wound the stick  
dies simply by the wound and  
wound out the stick

## XII. INJURIES AND DISEASES OF THE ABDOMEN.

## WOUNDS.

Varieties.—Superficial and Penetrating.

Causes.

Symptoms in the first or superficial.

Prognosis in superficial wounds.—Generally favorable, but may give rise to peritoneal inflammation, abscess, which may dissect up the integuments to a considerable extent in consequence of the resistance of the fascia, and finally to hernia from the weakness of the cicatrix.

Symptoms in penetrating wounds when no important viscera are injured.

Prognosis in such cases.

Mode of examining such wounds.

Treatment in each form of wounds.

Treatment of penetrating wounds complicated with protrusions of the viscera.

## WOUNDS OF THE STOMACH.

Causes.

Symptoms.

Diagnosis.

Prognosis.

Treatment.

*In kicks Concussio of  
Solar plexus stimulates  
glutty*

## WOUNDS OF THE INTESTINES.

Causes.

Symptoms.

Diagnosis.

Prognosis.

Treatment.

*return intestine always before  
operation*  
*In transverse Leberts operation*

## WOUNDS OF THE LIVER.

Causes.

Symptoms.

Diagnosis.

Prognosis.

Treatment.

*Bleed. Morpho*

## WOUNDS OF THE SPLEEN.

Causes.

Symptoms.

Diagnosis.

Prognosis.

Treatment.

## WOUNDS OF LARGE VESSELS.

Causes.

Symptoms.

Diagnosis.

Prognosis.

Treatment.

BLOWS ON THE ABDOMEN.

*Symptoms to which they give rise.*

*Prognosis.*

*Manner in which death is produced.*

*Treatment.*

ABSCESS IN THE WALLS OF THE ABDOMEN.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

*Make early incision or perhaps open in peritoneum.*

TUMOURS.

*Varieties.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

FISTULÆ—(BEAUMONT'S CASE, ETC.)

*Varieties.*

*Causes.*

*Symptoms.*

*Prognosis.*

*Treatment.*

ARTIFICIAL ANUS.

*Varieties.*

*Causes.*

*Symptoms.*

*Prognosis.*

*Treatment.*

POISONS IN THE STOMACH.

*Introduction of the stomach pump.*

PARACENTESIS ABDOMENIS.

See "Effusions."

EXTRAVASATIONS IN THE CAVITY OF THE ABDOMEN.

*Fluids extravasated.*

a. Blood.

b. Chyle and lymph.

c. Bile.

d. Urine.

e. Fæces.

*Symptoms produced by these extravasations.*

*Prognosis.*

*Treatment.*



And give him op'ie immediately  
till he is completely mortified, give  
a guarded prognosis if vessel wounded  
where there is a potentiality, the  
prognosis generally poor - Mention  
of the condition is mortified - see by  
grave prognosis - if mortified around  
wash warm water, if out two or  
3 hours gets hard - make it  
soft, and then put it in, if this  
do not, if protrude to lips of wound  
put pack, away - but close the  
wound with sticking plaster,  
If mortified in bleeding, cut off  
the vessel, if mortified by heat  
and shock, it is that from a plug  
is refused, dress with warm cloth  
and the crumpled gauze a stump  
If have infection and  
if hard and dry mortified part,  
the part which cannot be cut off  
wash it with warm water, put out back  
first with something white to  
the direction of the wound  
if cap, if infection may put a day  
press finger and then if it goes all  
come again put back of white  
no blood makes a crust  
and if mortified in spots further  
up the stump wash it with



make this do - if large es  
and if make an abscess  
must

Blows on abdomen. After nurse or all  
if find matter collecting make a free open  
let out matter and apply warm form-  
and support -

Lumps divided Internal  
and external, have fairly 4 doses -  
If stationary if non malignant  
if do not press on abdomen from size  
of to press on contents, let it alone

Prog - All ways guarded -

Internal - Most Common is ovarian  
tumor. If patient good health let her  
alone - no constitutional disturbance  
let it alone - If a fluctuation - digestion  
impaired - health - take if life is in  
jeopardy - take away - If it be a  
large tumor short peritonitis and  
adhesions - Two ways - great incision  
into Jefferson - and abdomen the  
water evacuated - and the organ  
out and then slipped up - The  
great incision is as safe as  
any - I. Fistula, or Abscess - and  
a small opening through  
which forced past - Generally can  
do best to apply a pad and wear  
it a week or so - and it is out  
If this does not cure - remove and  
the actual cutting all or take  
scalpel between the edges and

make a cut <sup>over</sup> and if no strain don't  
cut. Artificial anus diff in size a  
cut de Lac - and two opening -  
indication. is here to open tube. if a  
recent case put on a truss and  
the fecal matter will collect and  
get away the septum, If this fail  
apply a ligature pass a simple  
thread and cut it through other  
way is to cut away with scissors  
don't tie suture tight at first, and  
in two or three days divide the septum  
of deprecting another is a seton  
cut one end going in one cylinder  
press on it with bandage - won't  
do in recent cases won't do.

Operation gastrotomy to take  
out foreign substances never eat in  
the stomach life must be in danger  
and can feel foreign body - and  
sometime has chafed, and treat  
for wounded stomach, If you  
can feel any hard lump in the  
abdomen then open it - once felt  
don't suppose - pull out the intes-  
tine of intestine

Effusions - of Blood  
If hemorrhage active pass in the  
perineum and distend - the way where  
blood comes from - cut down and take  
if can find this close wound and  
look of peritoneal inflammation - the  
blood becomes soft and have a



a pointed abscess cut out your  
stick, and keep it open by a poultice.  
Effusion of bile does shut wound of bile  
Holes, keep open so long as the  
are discharged - if urine must pass  
a large catheter, if can't do this cut in  
perineum - keep it open till urine  
passes by urethra.

purifying Stomach

Find nature of  
Hernia

The contents different

vary in size usual size about that of  
the fist, may be any size large even very  
large in warm climate - 3

Reducible Irreducible, Strangulated

3 where circulation of part is entirely or  
partly stopped - causing swelling ~~is not~~  
not being in ring but in the protruding part  
Covering - Peritoneum - is called sac

Exists almost always but generally is  
not present in congenital hernia in  
very old Hernia it has become absorbed  
Sac generally takes shape of the  
viscus it covers may however be  
different in consequence of adhesion  
the original <sup>sac</sup> in old Hernia may be different  
density divided into 3 parts mouth of sac  
body and between 2 the neck when  
going through both rings may be  
divided by peripartus by into 2 parts

1. Intestine 2 Omentum - both are  
1. Climate, rare in cold climate 2 Sex mod  
by sex femoral most liable in female  
2 - anything strain forcing - or any  
thing which lessens cavity of the abdomen  
Symptoms - in Reducible depend on  
location - general symptom belong  
to all - 1st tumor can be put back by  
taxis or change in position - If when  
pass - A gurgling sound it is intestine  
if does not give this sound and comply  
ful and slow motion - tenderness in  
tumor diarrhoea and constipation -  
Irreducible tumor - can't put it back  
in origin can pass it back - may  
be confound with Hydrocele - Strang  
A disposition to be constant no pain  
no uneasiness except distension  
followed by tenderness in tumor - A  
little nausea increase of pain  
in whole abdomen and distension  
and bounding gradually returning  
out matter - Diagnosis easily done  
be satisfied if female without ex  
pose vulva - in cases, but to one  
side diaphragm may be confound  
with celiac plexus producing  
that gastric pain often put  
his hand over place in that  
particular -



## Hernia

Sac is a piece of periton carried down into an unnatural position - Shape is an important thing in diagnosis -

Diff Cong - and acy - 1<sup>st</sup> no proper peritoneal sac the other new vessels has been absorbed,

Anything that antagonizes the abdominal and diaphragm - Must drag and Poop depend on variety application Tons. Every pad must have a kind of tone and had getting the act of the young set have a coat pad if an old hernia have a part pad. best pad to Dr. Wood operates in two ways - 1<sup>st</sup> the press supports and allows the parts to contract. 2<sup>nd</sup> have chronic inflam and adhesive inflam. If perform after operation, put on a band well calculated to interrupt entirely the opening between the abdominal cavity and sac.

In order to be effective the band must be worn night and day -

I - ~~not~~ <sup>not</sup> ~~lose~~ <sup>lose</sup> feeling the sac and open a portion of integument rolled into the ring. I resembles Jannin's cont introduction of some integument and having returned the protrusion put ying to int ring - a pocket is formed on the finger, and then fills

## HERNIA.

*Definition.*—Derived from the Greek *επρος* a protrusion.

*Location.*—Groin, Umbilicus, Labia, Foramen ovale, Vagina, Perineum. Ischiatic notch and Diaphragm. Through the broad ligament, (Casteron and Saussier) Pilcher reports a case where the protrusion rested in a hollow of the bone of the pelvis. Mesenteric and Mesocolic hernia, and through the abdominal parietes.

*Contents.*—Vary in different cases.

*Size.*—Depends on the size of the viscus involved.

*Sac.*—Definition, mode of formation, and division. Cases in which the sac is wanting *Some the Sac*

*Division.*—*a.* With reference to the contents of the hernia.—Enterocoele, Epiplocele, entero-epiplocele, Gastrocele, Hepatocele, Cystocoele, &c. &c.

*b.* With reference to the situation it occupies.—Inguinal or Bubonocoele—Oscheocoele or Scrotal—Merocele or Femoral—Exomphalos or Umbilical—Ventral—Ventre-inguinal—Phrenic, &c. &c.

*c.* With reference to the period of its appearance. Congenital and Acquired.

*d.* With reference to the condition of the contents. Reducible—Irreducible without Strangulation—Strangulated without Adhesion—Strangulated with Adhesion.

*Causes.*—1. Predisposing. 2. Exciting.

*Symptoms.*—Depend on the variety and location of the hernia; there are certain general symptoms characteristic of the *Reducible, Irreducible, and Strangulated.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*—Depends on the variety.

1. For reducible hernia.

*a.* The truss.

*b.* Injection of the sac. *Paulwalder*

*c.* Caustics.

*d.* Acupuncture.

*e.* Scarification. (Velpéau.)

*f.* Introduction of gelatine strips. (Belmas.)

*g.* Ligature of Schmucher.

*h.* Ligature of sac.

*i.* Seton or royal stitch.

*j.* Plastic operation. (Jamieson.)

*k.* Pins. (Bonnet.)

*l.* Invagination of integument. (Gerdy.)

*m.* Do. do. (Velpéau.)

*n.* Rest in the horizontal position. (Ravin.)

*o.* Hernotomy. (Detmold.)

## 2. For irreducible hernia.

- a. Suspensary truss.
- b. Rest.
- c. Low diet for a length of time.
- d. Hollow truss.

## 3 For strangulated hernia.

- a. The taxis.
- b. Blood letting.
- c. Warm bath.
- d. Tobacco injection.
- e. Purgatives.
- f. Purgative injections.
- g. Opium.
- h. Introduction of a stomach tube into the rectum.
- i. Distension of lower portion of the intestine.
- j. Pressure and cold to the tumour.
- k. Ice to the tumour.
- l. Application of ether to the tumour.
- m. Application of Belladonna to tumour and urethra by means of a bougie.
- n. Application of a large cupping glass over the tumour.
- o. Operations.

## 1. The usual operation.

## 2. Subcutaneous operation.

## 3. Division of stricture without opening the sac.

## 4. Dilatation without cutting the stricture.

Question as to how long the operation may be deferred.

Treatment of the case after the stricture is divided.

Reduction en masse.

## PARTICULAR FORMS OF HERNIA.

## I. INGUINAL AND SCROTAL.

Definition.

Varieties.—1. Oblique. 2. Direct. 3. Concealed. 4. Congenital.

Most common variety.—The oblique.

Sex most liable.

Anatomy of the parts concerned in inguinal hernia.

Mode of formation.

Seat of Stricture.

Symptoms.

Diagnosis.—May be confounded with—1. Hydrocele of both the tunica vaginalis and cord. 2. Circocoele. 3. Retained testis. 4. Diseased testis. 5. Hematocele. 6. Crural hernia. 7. Tumours of the scrotum.

Diagnosis between oblique and direct hernia.

Prognosis.

Dissection of the tumour.

Treatment.—Depends on the form.



Hot bath reduces in 16 minutes  
warm foot & ice. Muscles

a middle armed with a double lig  
and tie it to a piece of cork laid on  
the groin and convert the tube  
to a solid cylinder by cauter. Agn  
Ammon -

2nd Inducible which cannot be  
returned into abdomen by pressure old  
treat was by a suspensory truss

If such - Lacer if there is a thick  
you can do nothing - but if there  
is adhesion! you can carry it back  
you have a hollow truss fit  
the tumor and adapt it to truss make  
in a week the bandage in truss  
more shallow - when have a flat  
and then a convex the intestine  
If very large don't compress -

3 - a - Taxis compresses to suit the  
case. methodically, must be done with  
great if sensitive and inflamed -  
don't touch it, if inflamed take down  
midline - and then trap the taxis  
don't keep up taxis to long - 15 or 25  
minutes must operate. Sometimes  
the whole tumor is carried in and  
the strang - If called in this case  
if leave patient he dies make him  
get up strain walk use taxis and  
operate. take cord guide follow up  
the cord,



Quin in S. Hernia samples on us its way you  
enough to paralyze him

are taxis by position, and if fails in  
position never don't relay too much  
when you stretch the ring is tense  
Inhal - of Ether may often get them in  
the Ext of blood - Use Tobacco infu  
employ greater care. If there is a coil  
of Opium - Don't leave patient until he  
do something

Operations - 1 - Cutting the Sac and  
then cutting the structure - Best  
2 - don't cut by back cut -  
3 - cut to Sac divide without  
cutting sac - No man can tell  
what is condition - Unless very dead  
small hernia. If an inguinal Hernia you  
first raise and then tear off

Concated - Inguinal Hernia diagnosis  
may be confirmed with <sup>Hernia</sup> ~~testis~~ <sup>by Dr. C. C. H. H. H.</sup>  
as large lymphatic glands. If not inflamed  
it is not painful testis are always -  
enlarged but can't be made to disappear  
- Means to cut through skin sup - the  
External Oblique - or make incision and  
expand below for sac - always  
by cutting directly up - Direct or indirect Eng.  
When protrusion comes through the external ring  
plane. In cutting we have skin sup 7, Intercol  
transverse muscle pulled up to a little knot  
Conjoined tendon of Transversalis and Internal Oblique  
some of these things may not always be true  
The case blocked with not answer here

In natural parts the sup. portion  
enters in cut abdominis, splits into two  
columns. Later columns are 1/2 of them the  
containing tendons of I & 2 oblique series to present the

Muscle have a small block not larger than  
end of your thumb. Run out any way but  
directly upwards. Horizontal. Lig. has no distinct  
peritoneal invest, anal comes on after birth.  
Loops in side of Semina Vaginalis. Later in part  
of the Setae. Sometimes Peritoneum will come  
down because opening is closed at birth -  
Diagnosis must be simple - I remember put  
in a truss with skin with big Bollen's. Danger  
of infection, appropriate dress - When the operation  
must be performed must preserve the structure  
on the outside of sac - If not possible open the sac  
at lowest point and cut it.

Page 162 - In colic tearing abdomen  
punching abdomen the pain always being in  
such cases being relieved by pressure. In hernia  
the patient is quiet. Rest and thighs flexed  
prop on age and size - Local -  
Generally measures - Palpation & Red  
is in Reduc - Rest - Always try this  
soft pad generally used for children in  
old hernia use wood or glass because  
it Rubs up irritation - It operates by drawing  
intestine and giving rise to inflammation  
must shear tissues night and day - Rest  
on truss while waiting, don't take off  
at operation of bone -



A concealed Inguinal Hernia is where it lodges  
in inguinal Canal. When out down here only  
tendon & tendons oblique Cremaster muscle partly  
or confined tendon - Direct Ingu Hernia where  
it goes through external ring and don't to let  
it ring in canal. If the tumor is confined tendon  
sometimes have cremaster muscle may be absent  
Treatment - very simple the same reduce  
it & puncture. Seat of Cong Ingu Hernia  
has no proper peritoneal covering - open down  
as low as possible but down at the very  
bottom - If external - If rough is outer  
of smooth - peritoneal sac - apply truss  
his scrotum while is born ~~not~~ very soft  
and - wash part every day - with A. B. G. J.  
Alcohol Zj -

Hernia - belongs to femoral  
3 parts - 1 all parts below P. sup 2 parts  
concerned in canal & each - and part to  
in pelvis - Integuments very delicate  
divide by puncturing - 2 Superficial  
Arteries Arteries and Lymph glands -  
3 - Mass of cellular tissue lobiform forms  
a patch of Superficial fascia spreading  
across Saphenous opening - 4 Trilacina  
lata femoris - 2 part - Sart and part Pro-  
terior part is arched is deep ligament  
if is not sharp it directed to get behind  
femoral vessel - 5 Ant wall of Sheath  
of vessels is a prolongation of Superficial  
and Rhaca fasciae





Wm. J. Sumner

General - Where intestine goes through the anal ring - Butting head into Intestine generally happened in the female. Description of parts into 3. the parts below Bursaparts left. 2<sup>nd</sup> just beneath they 3 parts are within the cavity. 1. Tegument characterized by delicate 1<sup>st</sup> Superficial fascia (having lymphatic glands & pudic artery, 3<sup>rd</sup> Fascia Lata) divided into 2 parts partial & spectral. In a single of junction is Saphena vein. The fascia where lets Saphena out on outside is Crescentic called Key Left has double edge. inserted along with Gubernate Left. Then come to sheath of Vessels.

Under Porpanto we have Cural arch. Boas & Illino  
muscles. the vein & artery & Cural ring wh. is occupied  
by gland & fascia propria. Ring bounded inside by G & Igt  
outside by vein. Anterior below by bone above  
porpanto.

Inside we look at throat of vessels like a compressed funnel. In pelvis have peritoneum. & Ant the fascia transversalis post the f. iliaca. Then firm strong attack to Psoas rendering it impossible for Hernia to get out there. Epigastric artery & co. anterior sometimes Obducaty. Cut up tendon always. The gut pushes down the fascia propria to than Strictures. At mouth of sac. G. I. got him Sac-falceiform process but at the Ovary. Fan covering to a F.H. Men Suspension fascia propria Hemial Sac, and found the top end of sac in very position to right & middle of iliac all pull down the Fascia Propria - etc. Structure in one of 5 places, at groin big mouth. Sac and may have in Sac

## II. FEMORAL OR CRURAL HERNIA.

Definition. *When hernia goes through crural ring*

Sex most liable.

Varieties. *Oblique or concealed*

Anatomy of the parts concerned in femoral hernia.

Mode of formation.

Seat of Stricture.

Symptoms.

Diagnosis.—May be confounded with—1. Inguinal hernia. 2. Bubo. 3.

Varicose femoral vein. 4. Psoas Abscess. 5. Fatty tumour. 6. Aneurism.

Prognosis.

Dissection of the tumour.

Treatment.

## CONCEALED FEMORAL HERNIA.

Definition.

Mode of formation.

Causes.

Symptoms.

Diagnosis.

Prognosis.

Dissection.

Treatment.

## III. UMBILICAL HERNIA.

Definition.

Synonymes.

Varieties —1. Congenital. 2. That of young persons. 3. That of adults.

Exact point of protrusion.—Depends somewhat on the age of the individual.

Contents of the hernia.

Form.

Size.

Symptoms.

Diagnosis.

Prognosis.

Dissection of the tumour.

Treatment.—Modified to suit the age of the individual.

## IV. VENTRAL HERNIA.

Definition.

Varieties.

Causes.

Symptoms.

Diagnosis.

Prognosis.

Dissection.

Treatment.

V. PUDENDAL HERNIA.

*Definition.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*

VI. VAGINAL HERNIA.

*Definition.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*

VII. PERINEAL HERNIA.

*Definition.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*

VIII. THYROIDAL HERNIA.

*Definition.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*

IX. VESICAL HERNIA.

*Definition.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

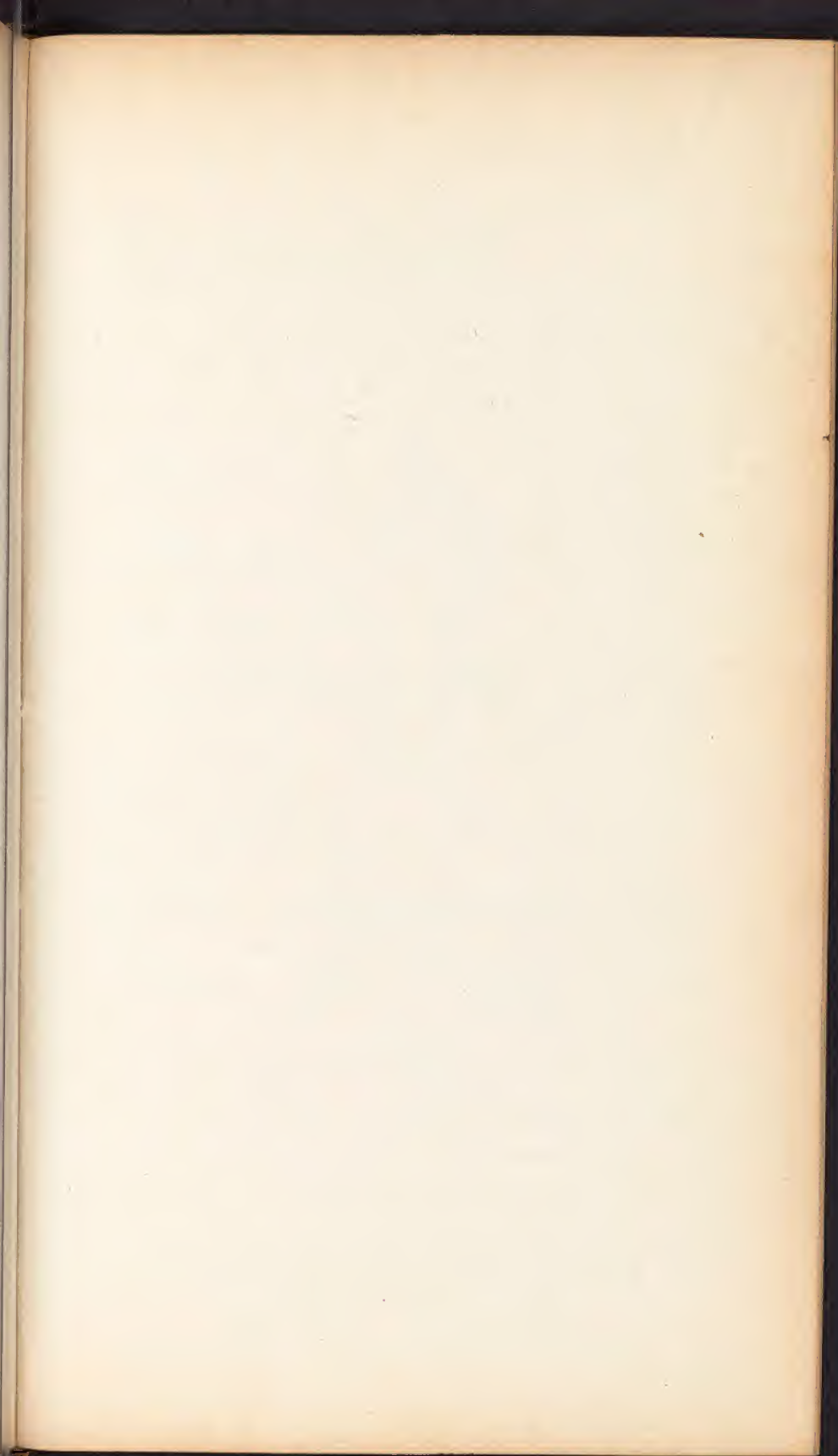
*Treatment.*

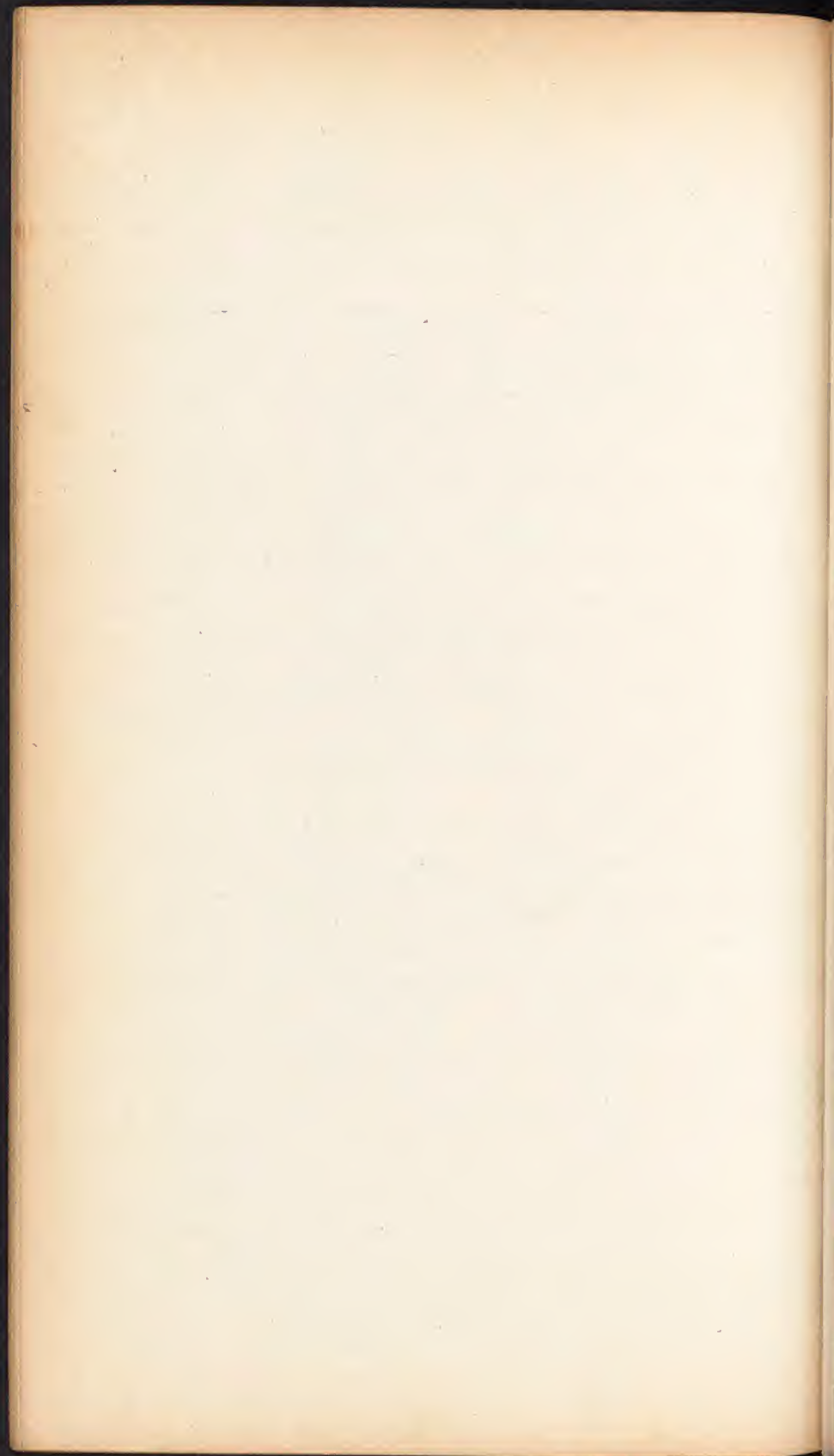


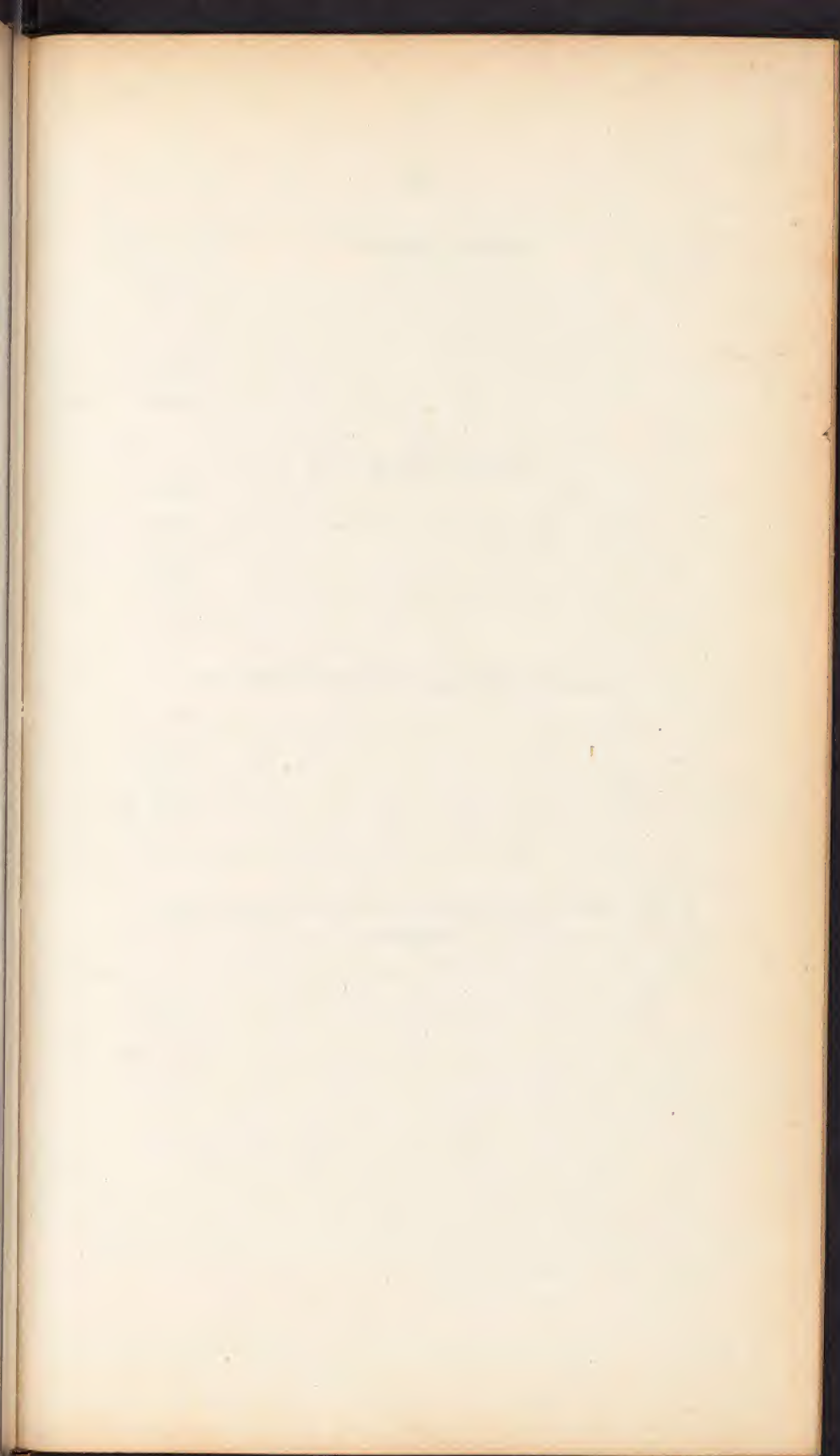
Umbilical. at Birth and young  
and in the adult - diagnosis - at  
Birth external Ovary - by constituents of  
cord on skin - generally accompanied  
by taking a hemispherical body  
covered by lotion - Keep it down by  
adhesive plaster and Bandage. If  
Child 2 yrs of age - diag simple  
may resort to lig. - use a Wound  
body attached to an elastic  
strap (return protrusion pinch sac  
and put ligature round 3 times  
here to cut here - create a great  
deal of pain - ulceration takes place  
and sloughs off sac - In adult the  
only one is pad and Spring - If very  
large and dim with cav. of abdomen  
don't turn back but palliate - only  
one stricture or strang if recent  
divide on outside sac if recent  
if old Keep - the sac out till cut it



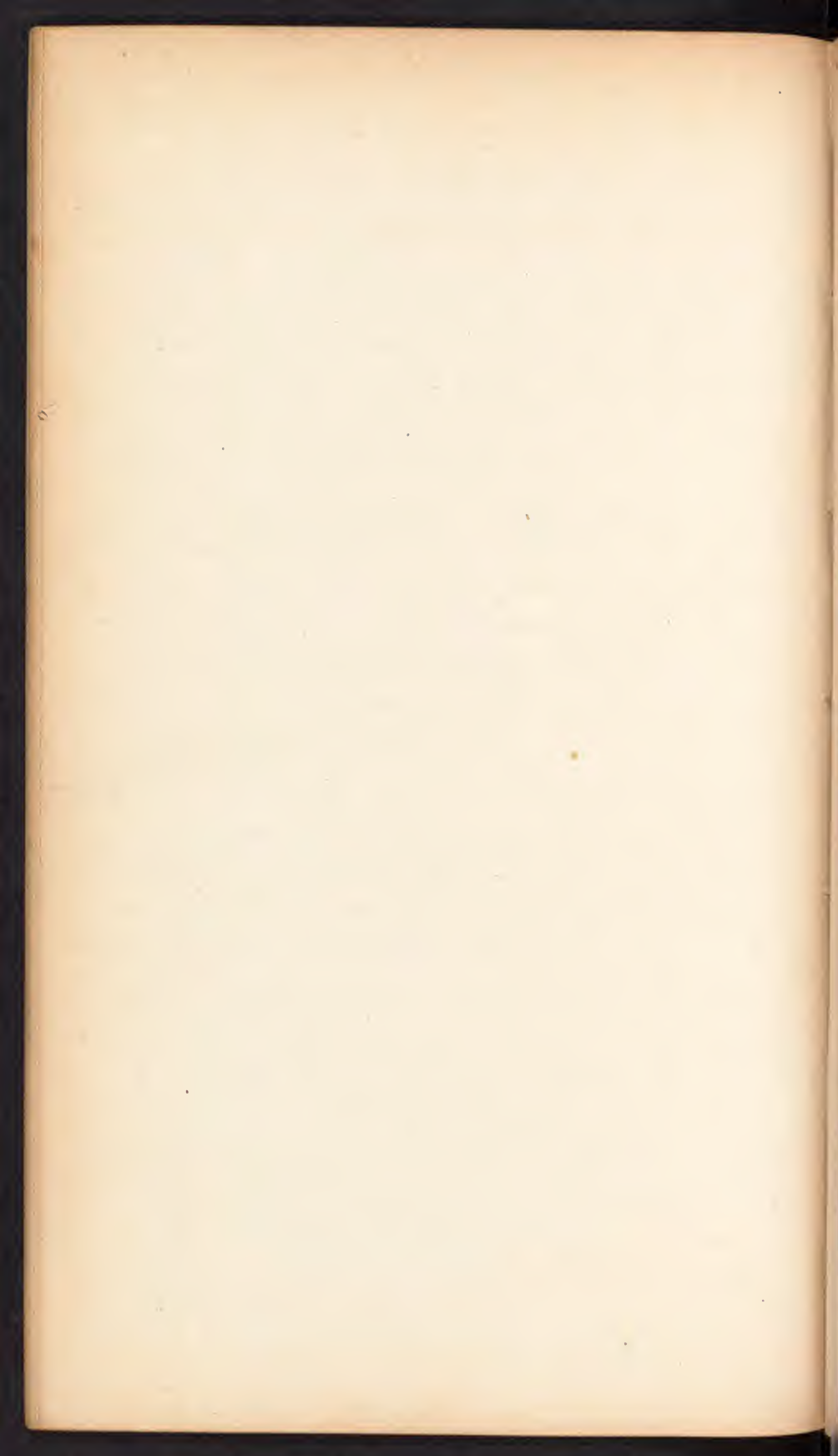












X. ISCHIATIC HERNIA.

*Definition.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*

XI. PHRENIC HERNIA.

*Definition.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*

XII. MESENTERIC AND MESOCOLIC HERNIA.

*Definition.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*

XIII. STRANGULATION OF INTESTINES WITHIN THE  
ABDOMEN.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*

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### XIII. INJURIES AND DISEASES OF THE ANUS AND RECTUM.

#### IMPERFORATE ANUS.

*Definition.*—Congenital occlusion of the natural orifice of the rectum.

*Varieties.*—*a.* Simple contraction.

*b.* Closure by a thin membrane.

*c.* Termination of the rectum in a *cul-de-sac*, no vestige of the anus being present.

*d.* Termination of the rectum in other organs.

*e.* Formation of a septum above, while the anus itself is open.

*Causes.*

*Symptoms.*—Depend on the nature of the defect.

*Diagnosis.*—Has been confounded with colic, &c.

*Prognosis.*—Depends on the form.

*Treatment.*

*Treatment when the usual operations cannot be performed.*—Various operations for artificial anus.

#### WOUNDS AND LACERATIONS OF THE ANUS.

*Varieties.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

#### INFLAMMATION OF THE ANUS.

*Varieties.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

#### ABSCESS OF THE ANUS.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

#### PRURITUS.

*Definition.*

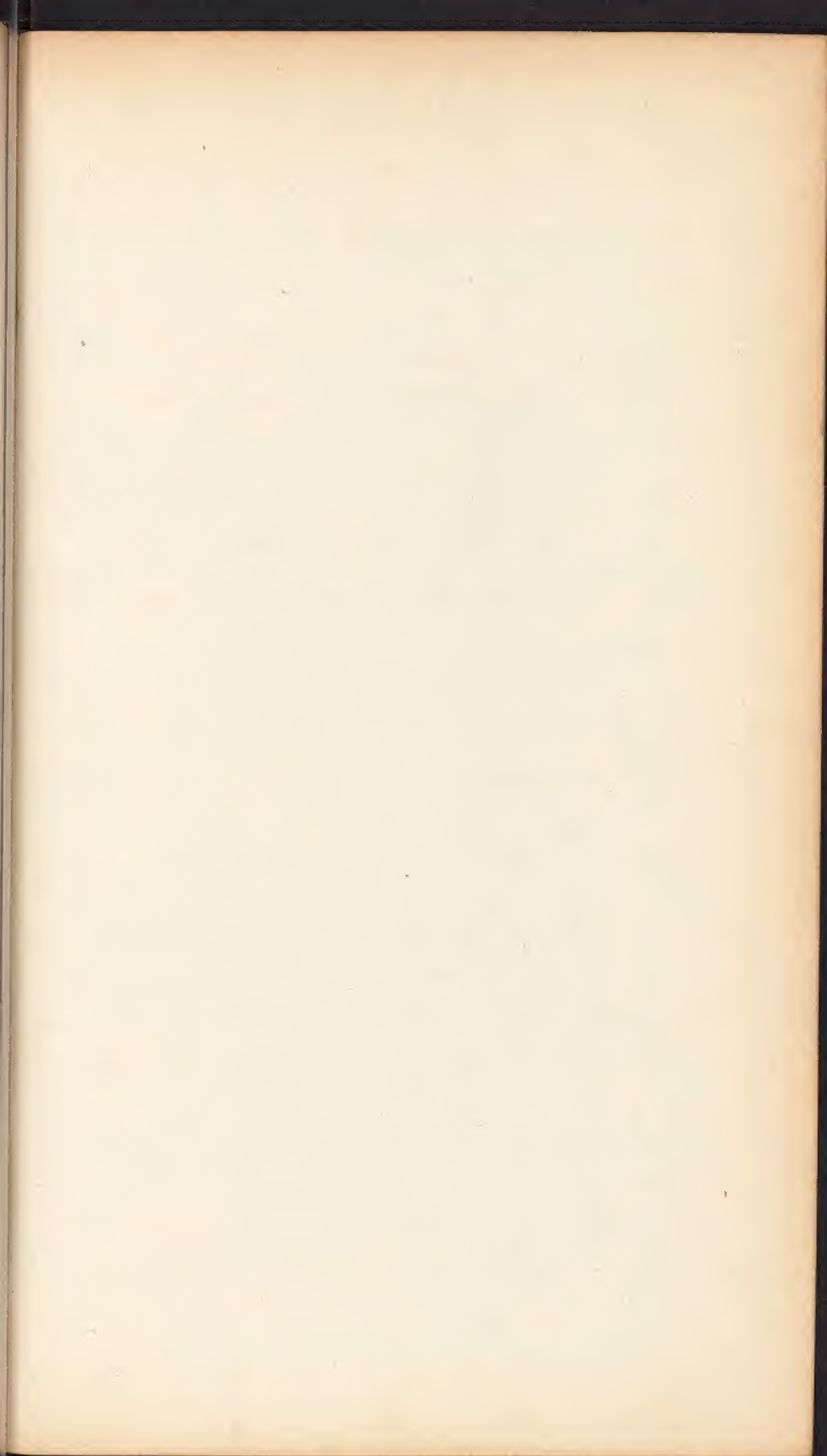
*Causes.*

*Symptoms.*

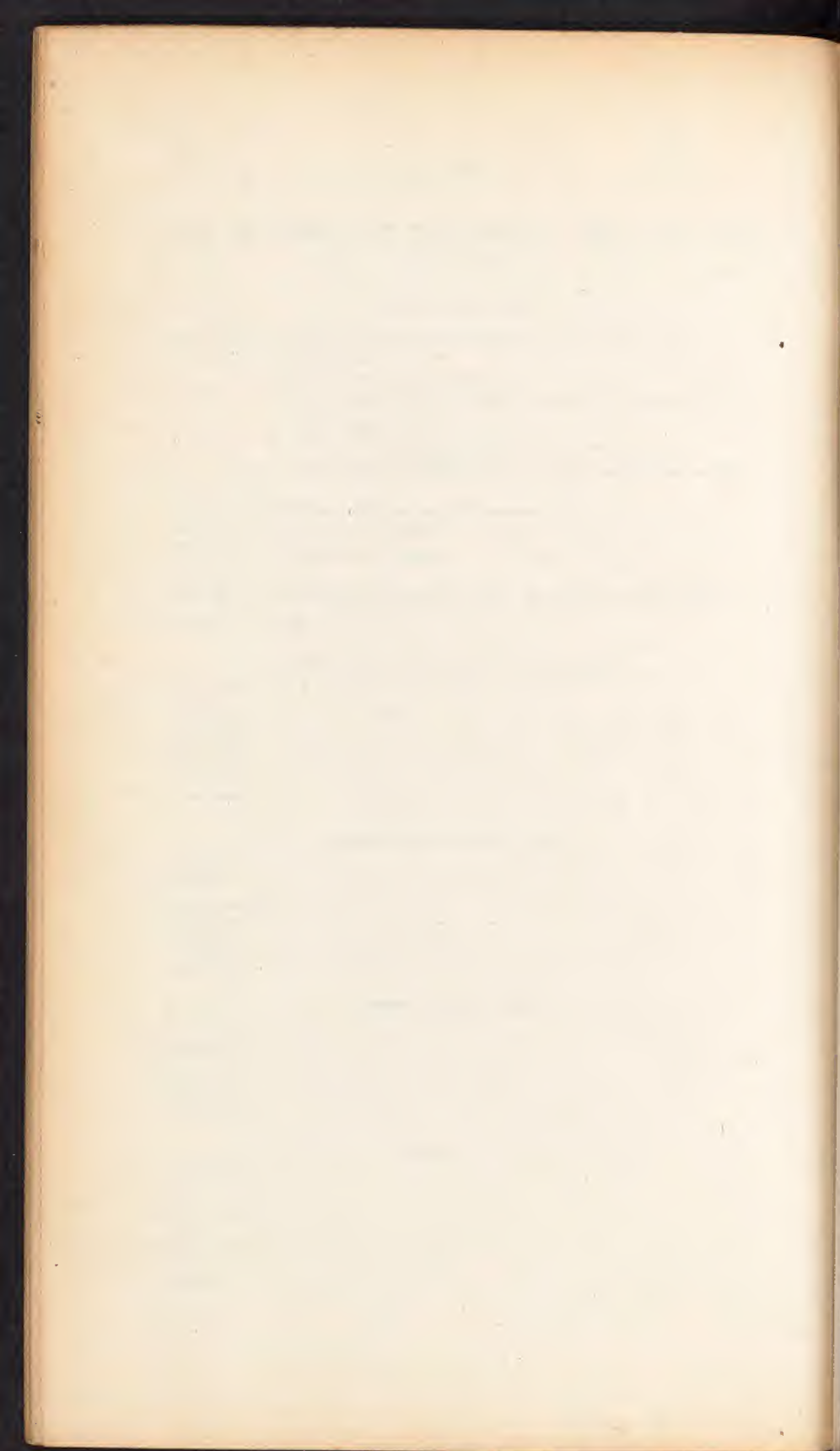
*Diagnosis.*

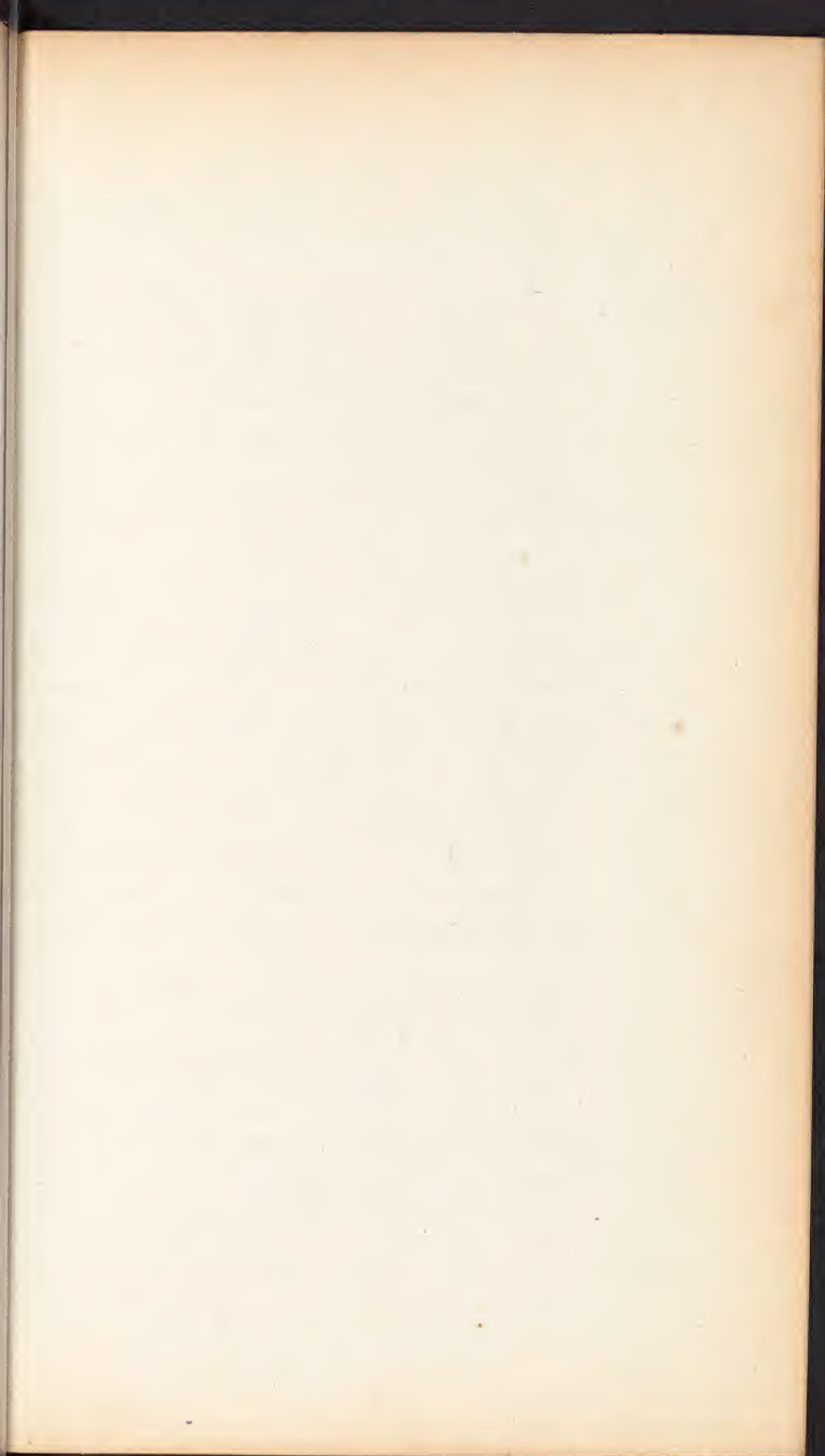
*Prognosis.*

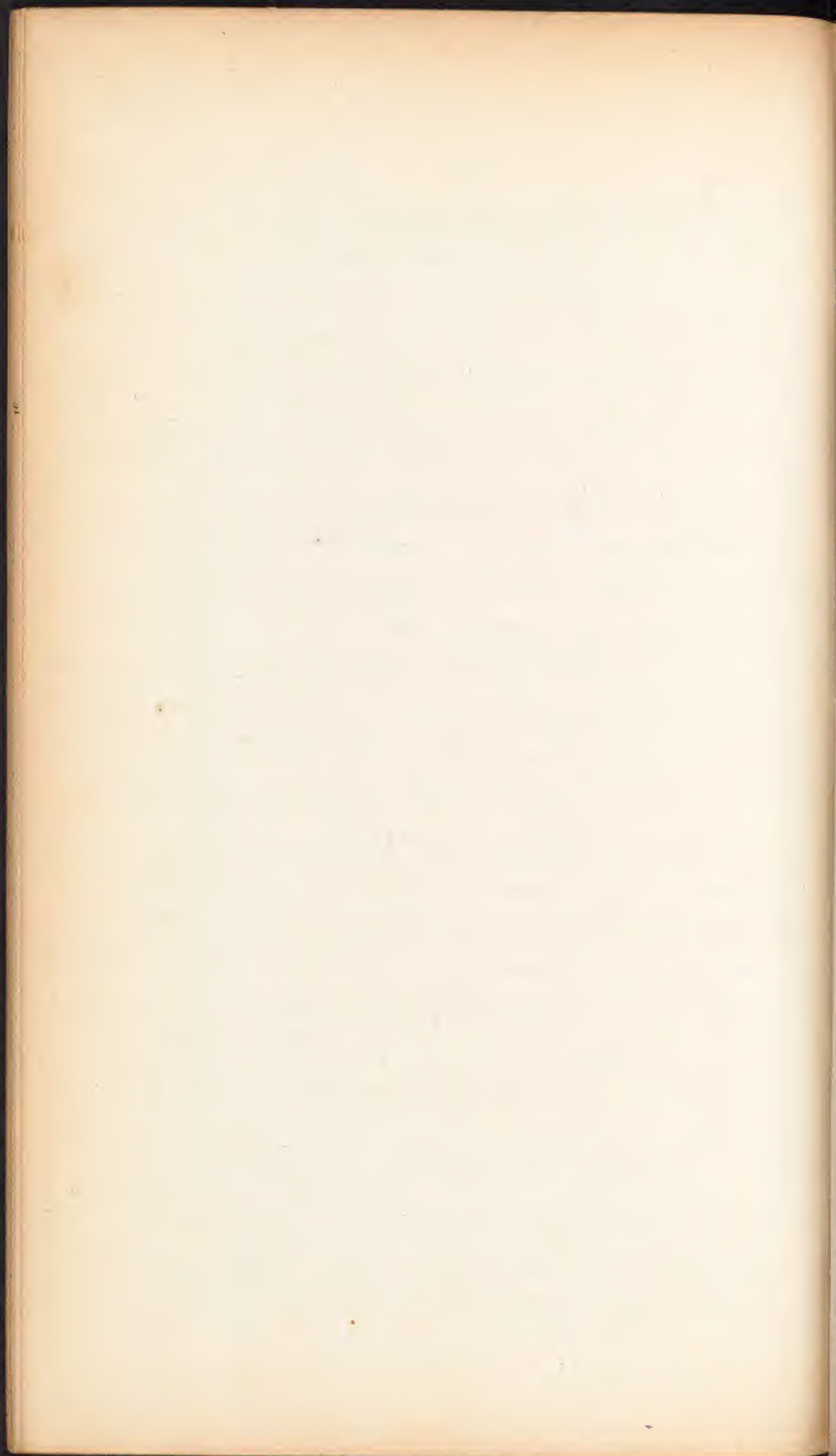
*Treatment.*

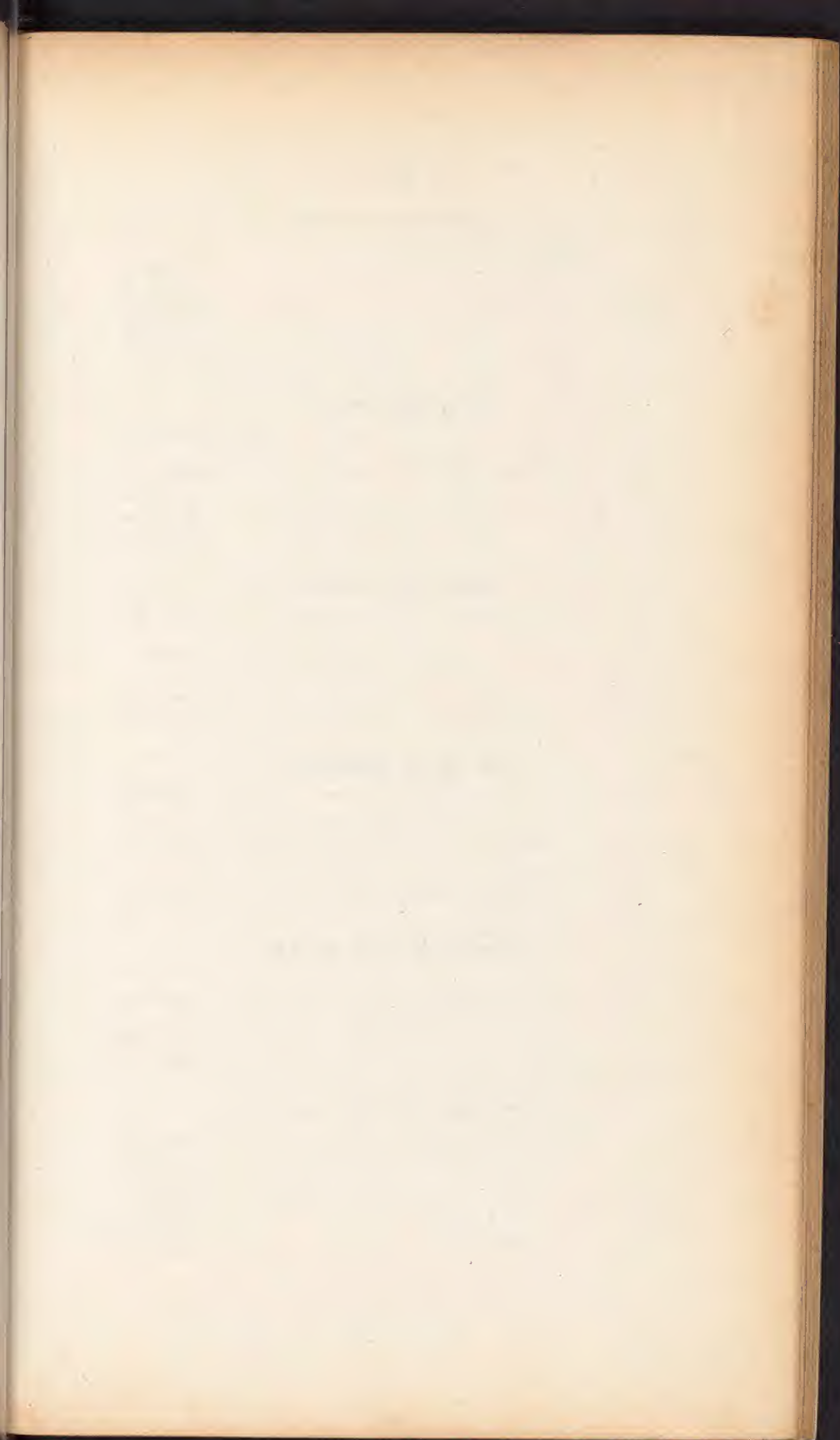




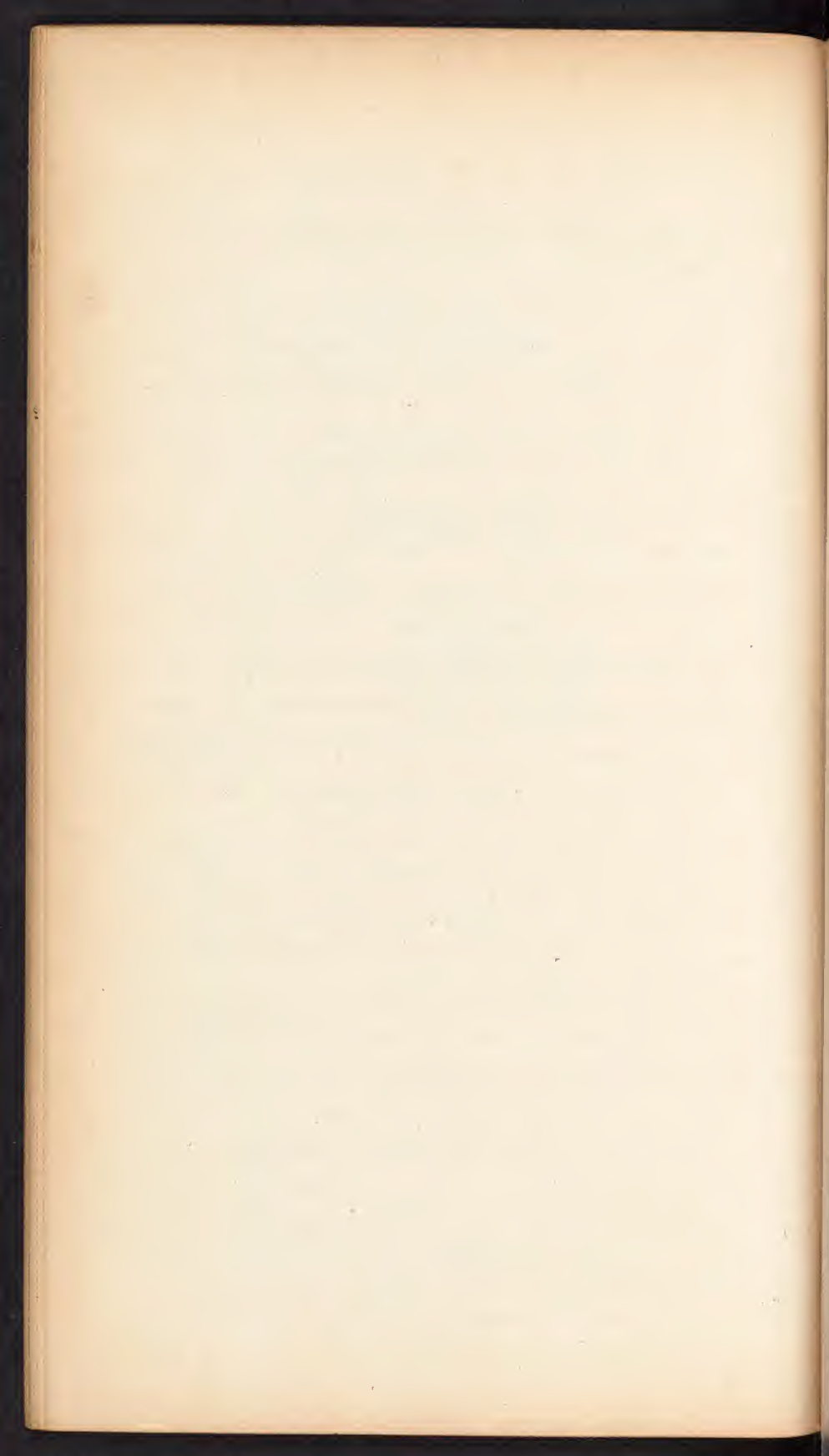












NEURALGIA OF THE ANUS.

*Definition.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

SPASM OF THE ANUS.

*Definition.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

ATONY OF THE ANUS.

*Definition.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

BLENORRHAGIA OF THE ANUS.

*Definition.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

HÆMORRHAGE FROM THE ANUS.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

ORGANIC STRICTURE OF THE ANUS.

*Definition.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

TUMOURS OF THE ANUS.

*Varieties.*—Verrucæ, condylomata, &c.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

SCHIRROUS OF THE ANUS.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

ULCERS OF THE ANUS.

*Varieties.*—*a.* Common ulcer. *b.* Aphthous ulcer. *c.* Venereal ulcer.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

FISSURE OF THE ANUS.

*Definition.*

*Causes.*—Constipation, piles, hard fœces, mechanical injuries, spasm of the sphincter, &c. &c.

*Symptoms.*

*Diagnosis.*—Often confounded with neuralgia, sacs, &c.

*Prognosis.*

*Persons most liable.*—Women from their sedentary habits.

*Progress.*—Generally slow; may be rapid.

*Extent.*

*Treatment.*—Various methods employed :

*a.* Washes and ointments of various kinds.

*b.* Dilatation.

*c.* Incision of sphincter.

*d.* Excision of fissure. (Mothe, Guerin, Velpeau, &c.)

POUCH OF THE ANUS.

*Definition.*

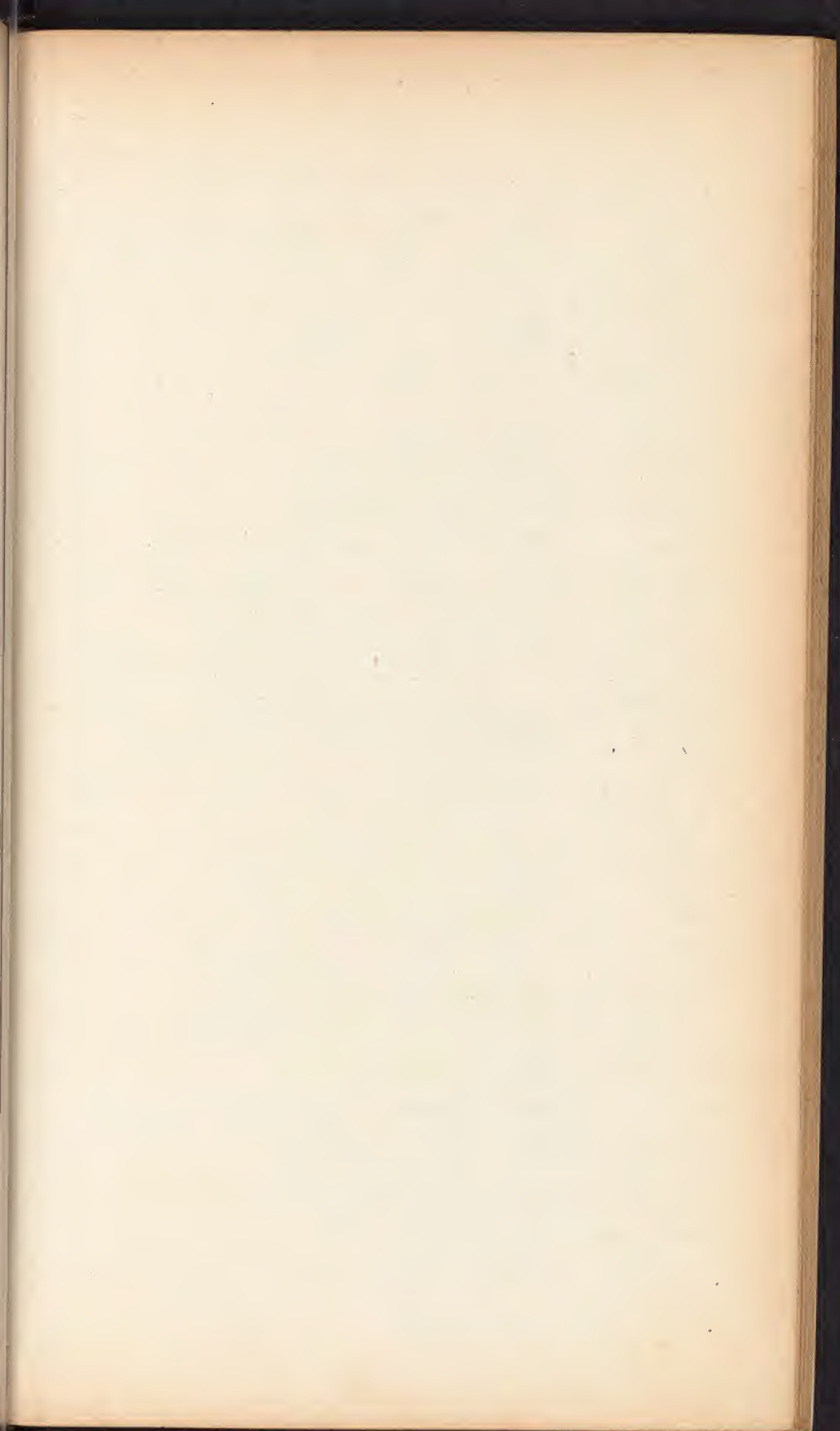
*Causes.*

*Symptoms.*

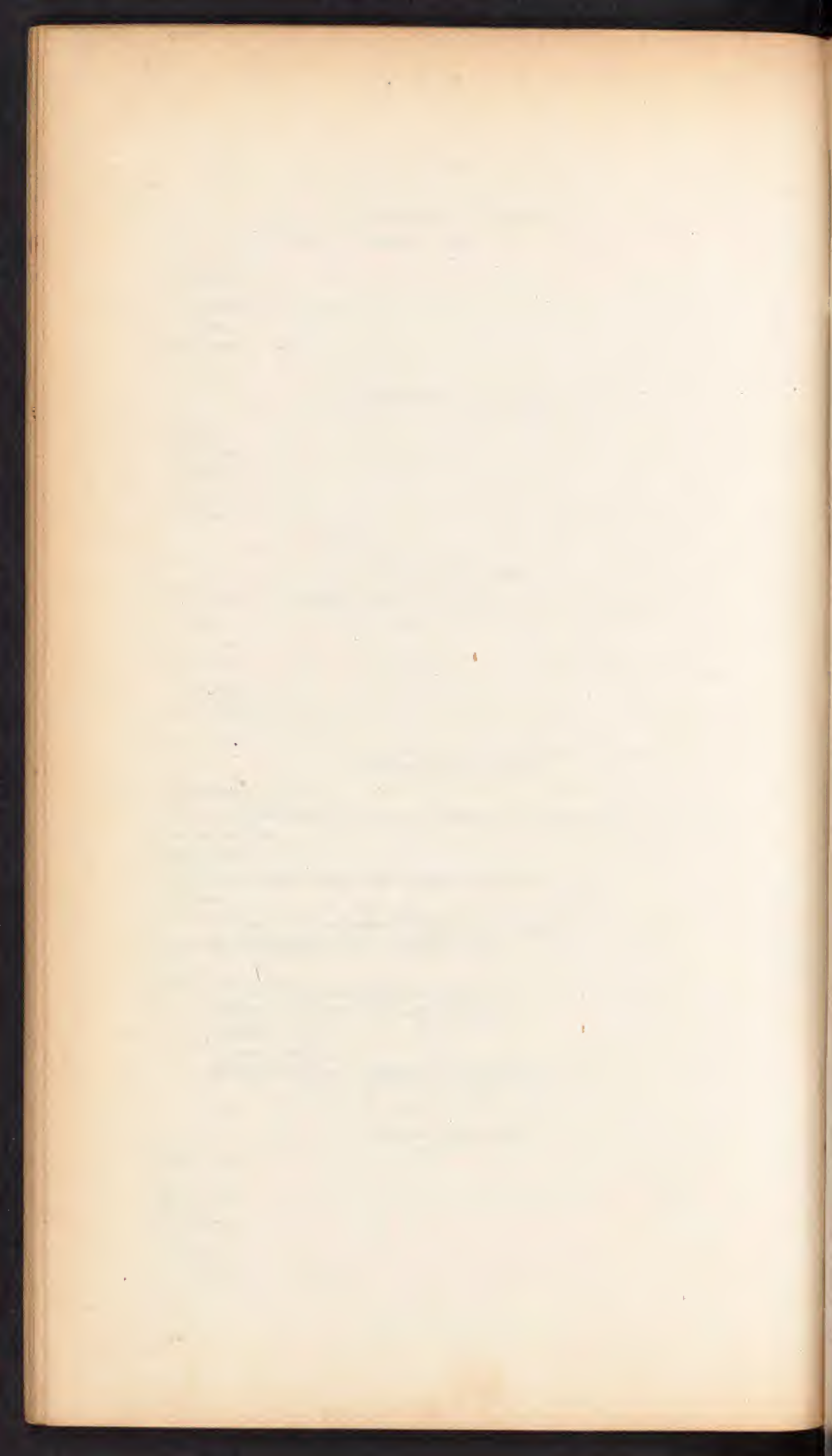
*Diagnosis.*

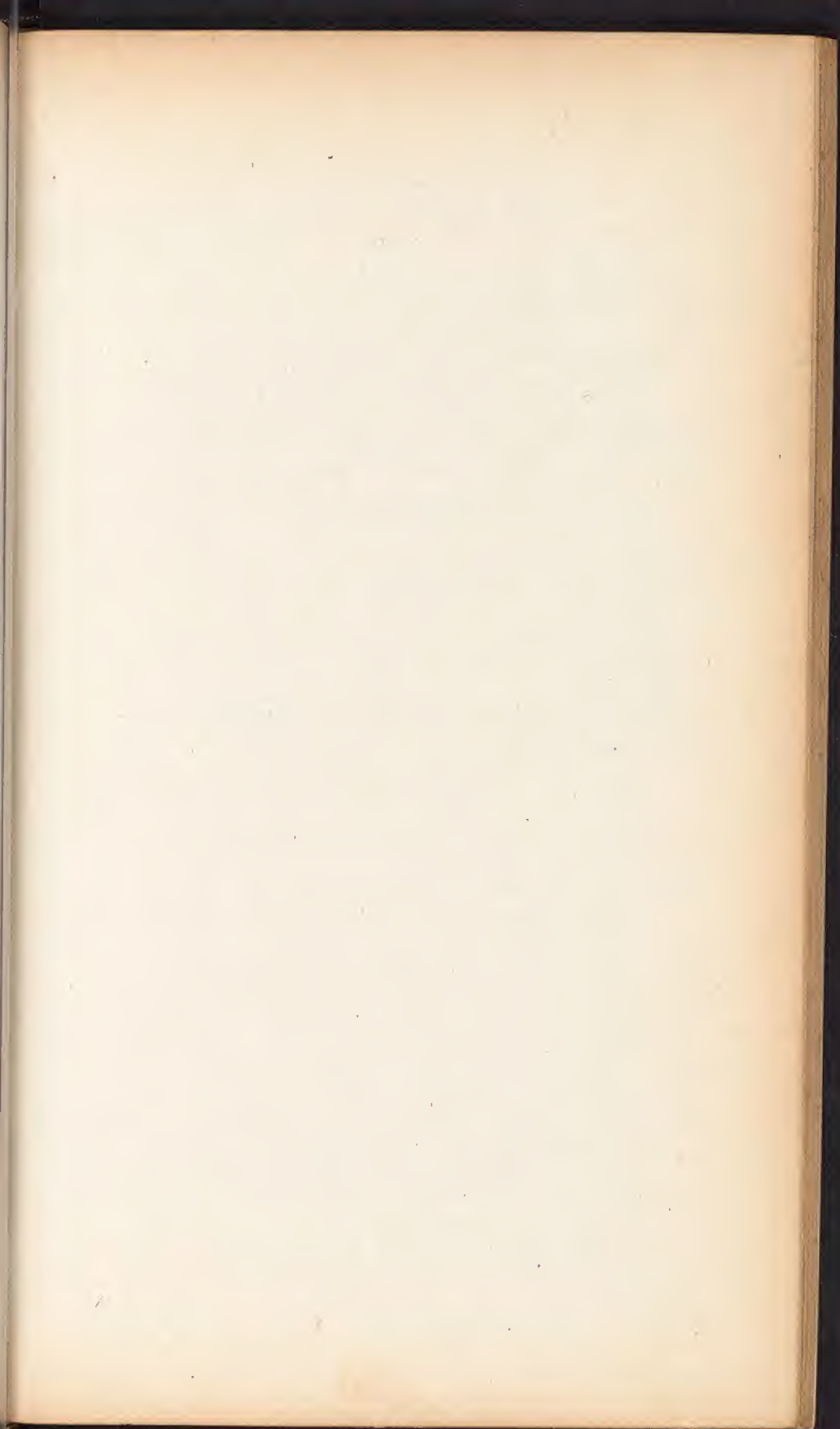
*Prognosis.*

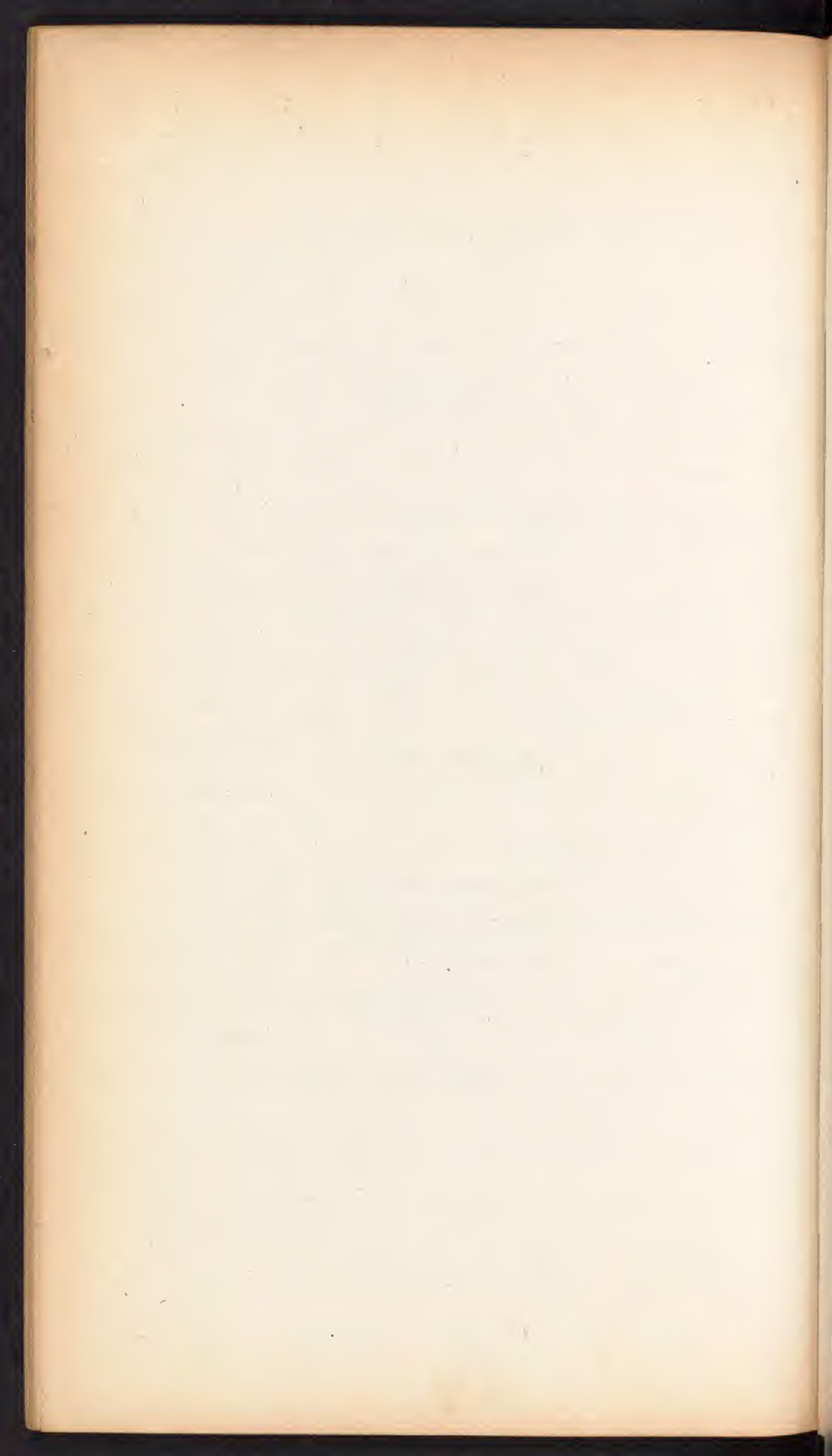
*Treatment.*

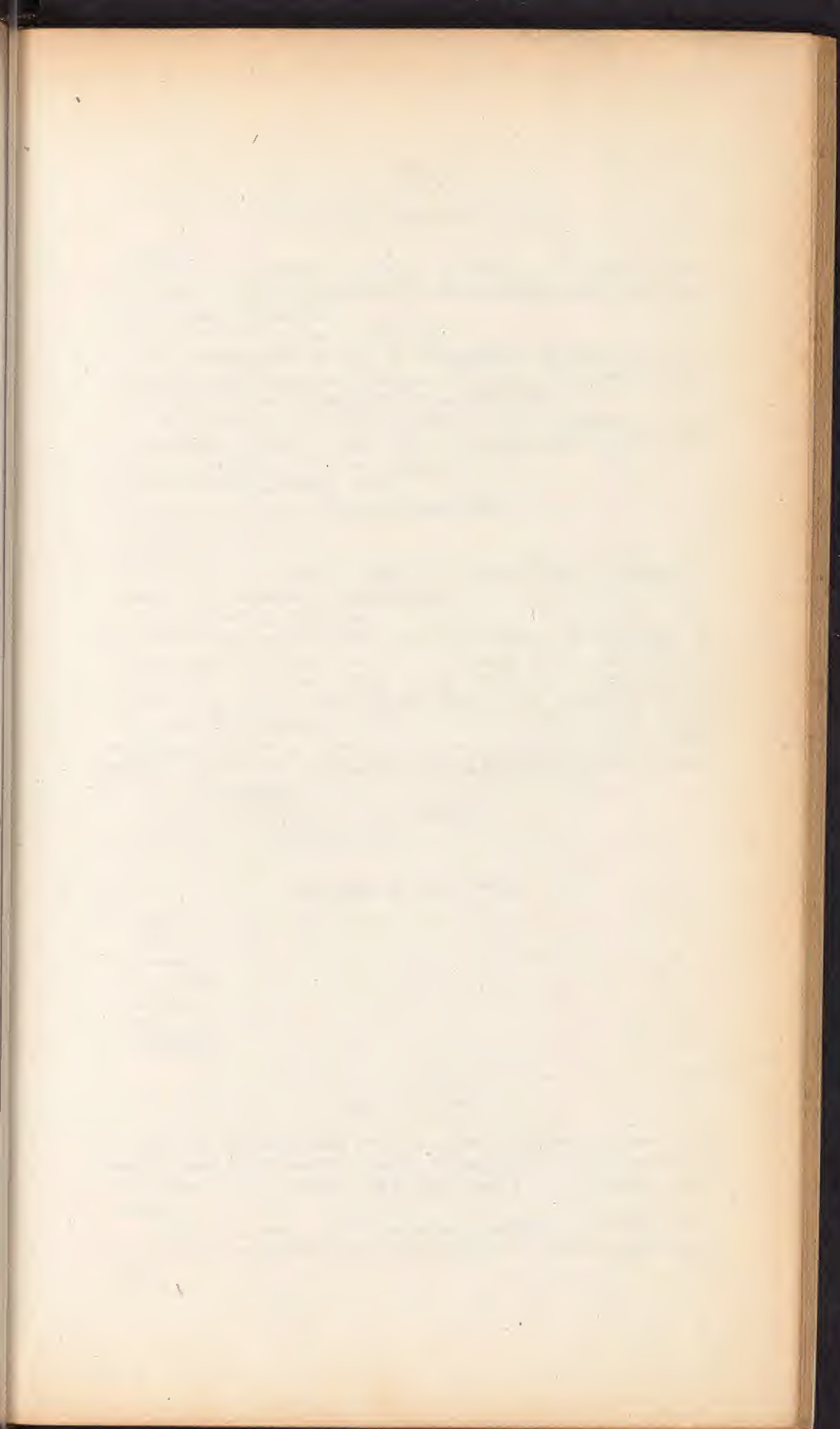




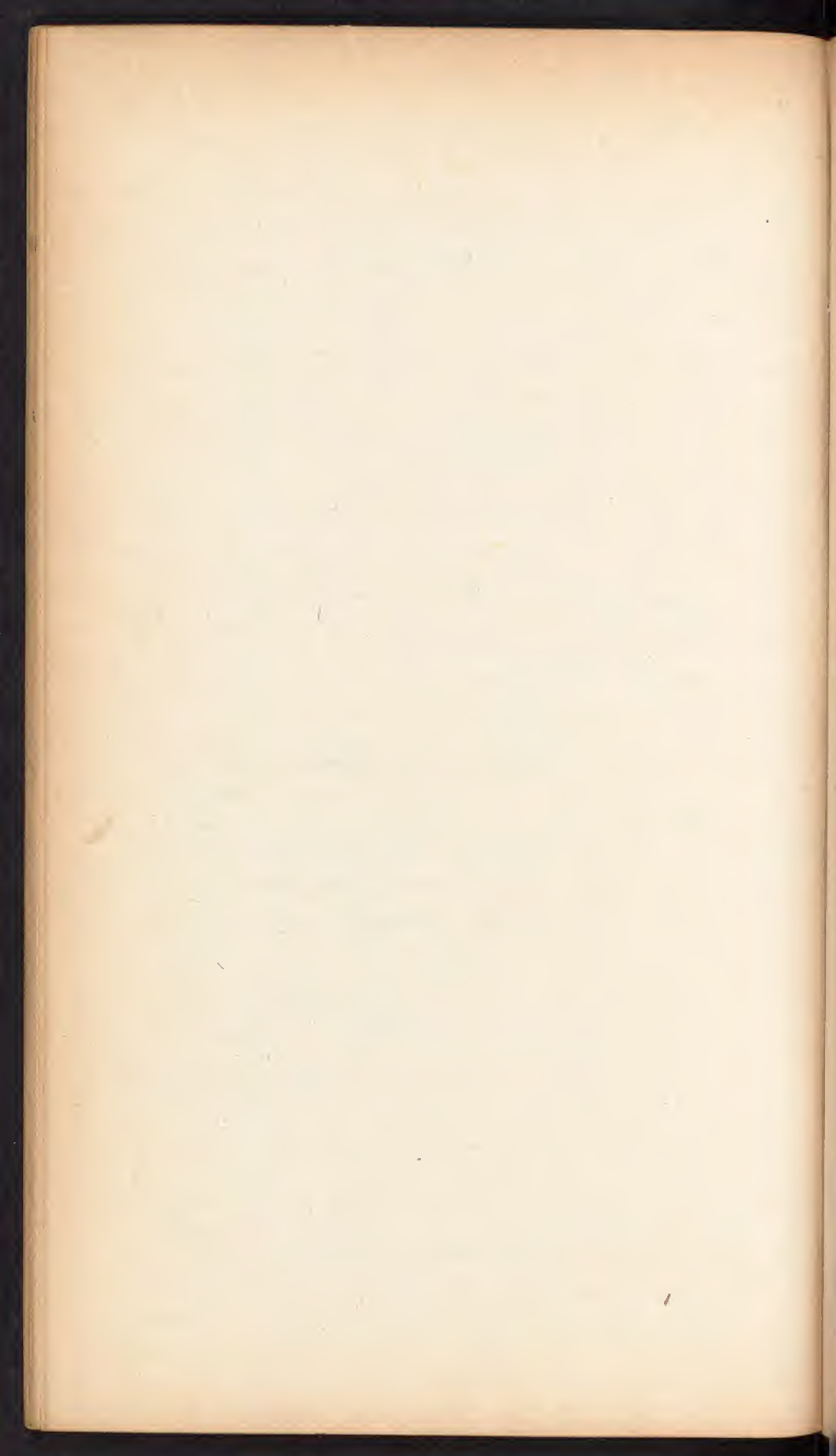












## PROLAPSUS ANI.

*Definition.*

*Varieties.*—1. External. 2. Internal. 3. Prolapsus of the mucous membrane alone. 4. Prolapsus of all the coats of the intestine, (doubted by some.) 5. Reducible. 6. Irreducible.

*Causes*—1. Predisposing. 2. Exciting.

1.—*a.* Childhood and old age. *b.* Constitutional relaxation. *c.* Want of tone in the muscular apparatus of the anus. *d.* Debility of the whole intestine. *e.* Peculiar arrangement of longitudinal fibres of the rectum.

2.—*a.* Constipation. *b.* Lodgment of foreign bodies in the rectum. *c.* Piles. *d.* Ascarides. *e.* Drastic purgatives. *f.* Prolapsus uteri. *g.* Stricture. *h.* Stone in the bladder. *i.* Violent coughs, &c.

*Extent.*—Varies in different cases.

*Symptoms.*—Depend on the form of displacement.

*Diagnosis.*—Piles, &c.

*Prognosis.*

*Treatment.*—Indications. 1. Return the protruded part. 2. Maintain it reduced. 3. Remove the cause of prolapsus.

*Mode of returning the prolapsus.*

*Measures employed under the second indication.*—*a.* Laxative diet. *b.* Voiding fæces in the erect posture. *c.* Astringent washes and ointments. *d.* Pressure. *e.* Pessaries. *f.* Cold douche. *g.* Ligature of small folds of the mucous membrane, (Heavyside and Howship.) *h.* Excision of radiated folds, (Hey and Dupuytren.) *i.* Excision of a circular portion of mucous membrane, (Sabatier and Ricord.) *j.* Excision of a portion of the external sphincter, (Robert.) *k.* Radiated incisions and the nitrate of silver, (Coates.) *l.* Cautey, (Chesselden.)

*Measures employed under the third indication.*

*Treatment of irreducible prolapsus.*

## PROLAPSUS OF THE RECTUM.

*Definition.**Varieties.**Causes.**Symptoms.**Diagnosis.**Prognosis.**Treatment.*

## FISTULA IN ANO.

*Definition.*—A suppurating cavity of greater or less extent, situated in the neighbourhood of the anus and rectum, discharging by one or more orifices, either externally or into the gut, the walls of which it is very difficult to cause to adhere.

*Causes.*—Any cause, constitutional or local, calculated to produce inflammation in the cellular tissue surrounding the anus or rectum, may give rise to Fistula.

*Varieties.*—1. Incomplete or external blind Fistula. 2. Incomplete or internal blind, or occult Fistula. 3. Complete Fistula.

*Course or direction.*—Varies.

*Number.*—Varies.

*Depth or extent.*—Varies.

*Seat of the internal orifice in Fistula.*

*Symptoms.*—Vary with the variety.

*Mode of examining the anus, for the detection of internal Fistula.*

*Diagnosis.*—May be confounded with the urinary fistula, when external. Occult fistula may be confounded with sacs of the rectum, internal piles, ulcers, menorrhagia, &c.

*Prognosis.*—Varies in different cases.

*Causes which prevent closure of the Sinus, and which must be overcome.*—

1. The action of the sphincter and levator ani muscles. 2. The surfaces becoming callous. 3. Lodgment of pus. 4. The passage of fecal matter through the fistula.

*Treatment.*—Various plans of treatment have been employed, and frequently constitutional as well as local remedies are required.

1st. or Constitutional.—Modified to suit the case.

2d. or Local—

a. Baths, mineral waters, &c.

b. Caustics and cauterization.

c. Compression—eccentric and external.

d. Ligature.

e. Incision.

f. Excision.

*After treatment when operations are performed.*

*Method to be preferred.*—Depends on circumstances.

#### PILES.

*Definition.*

*Varieties.*—1. Blind. 2. Open. 3. External. 4. Internal.

*Causes.*

*Sex most liable.*

*Class of Society most liable.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*—1. Palliative. 2. Radical.

#### WOUNDS OF THE RECTUM.

*Varieties.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*



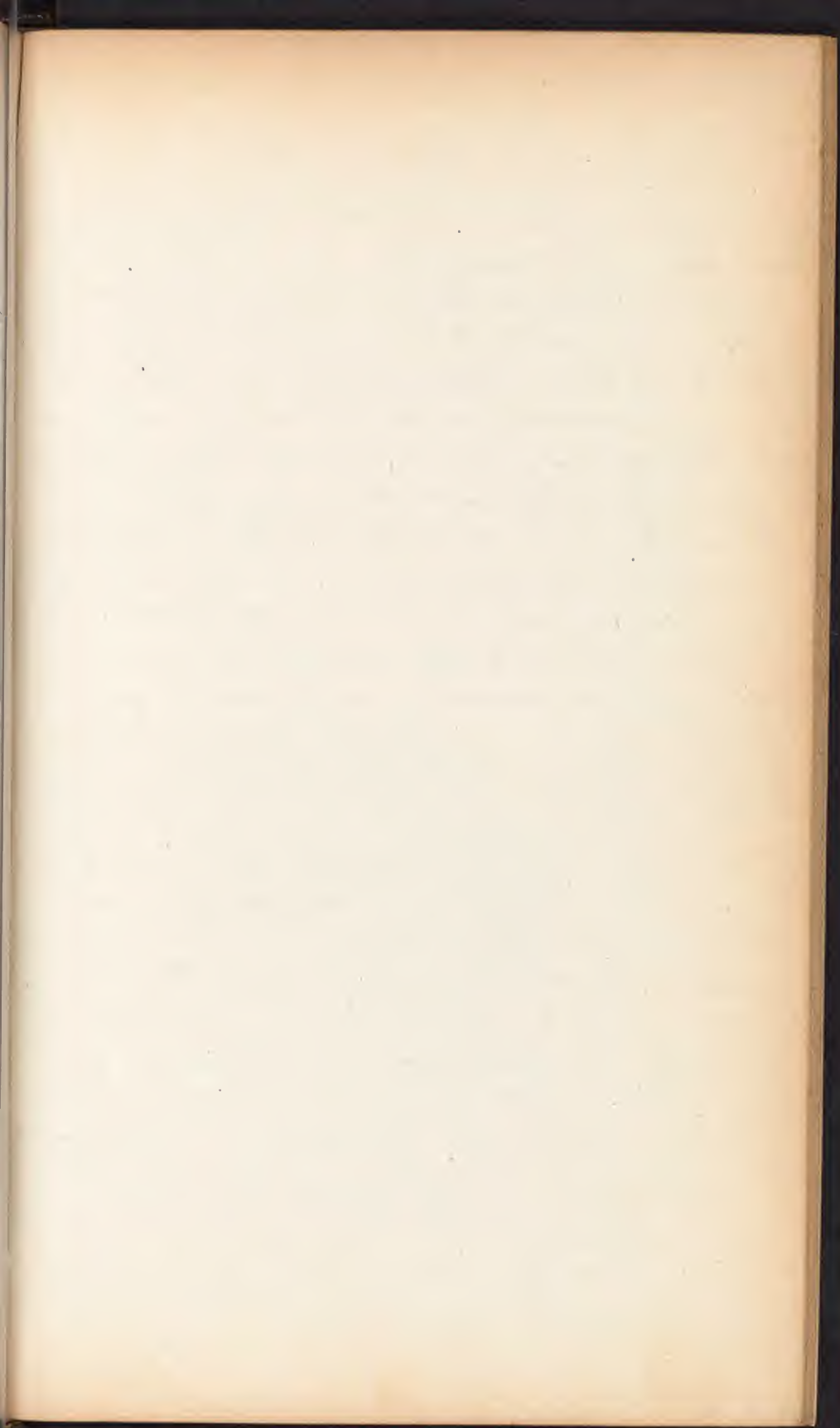
Piles - The gross must be made  
by sight, with Speculum - or by straining  
forcing turned out of Sphincter Ani -  
Lysip - Sometimes have discharge of blood  
varying from a few drops to a pint  
and a sense of fullness in rectum  
and if constitution is modified by the  
loss of blood must interfere to save  
the life of patient - Some cases let  
him be - as in Apoplexy - of Blain  
bony - attack of Piles - Simply an  
inflammatory attack based on the  
presence of Piles - never leave Piles  
strangulated - Dilated vein - 2  
Flashy pile in centre Small artery  
or vein - 3 Eruptive pile - all ways into  
communication - 4. Result Ossification  
of Capillary vein when open into  
rectum forms - the ~~has~~ in it  
Never cut into a tumor which can  
squeeze out blood

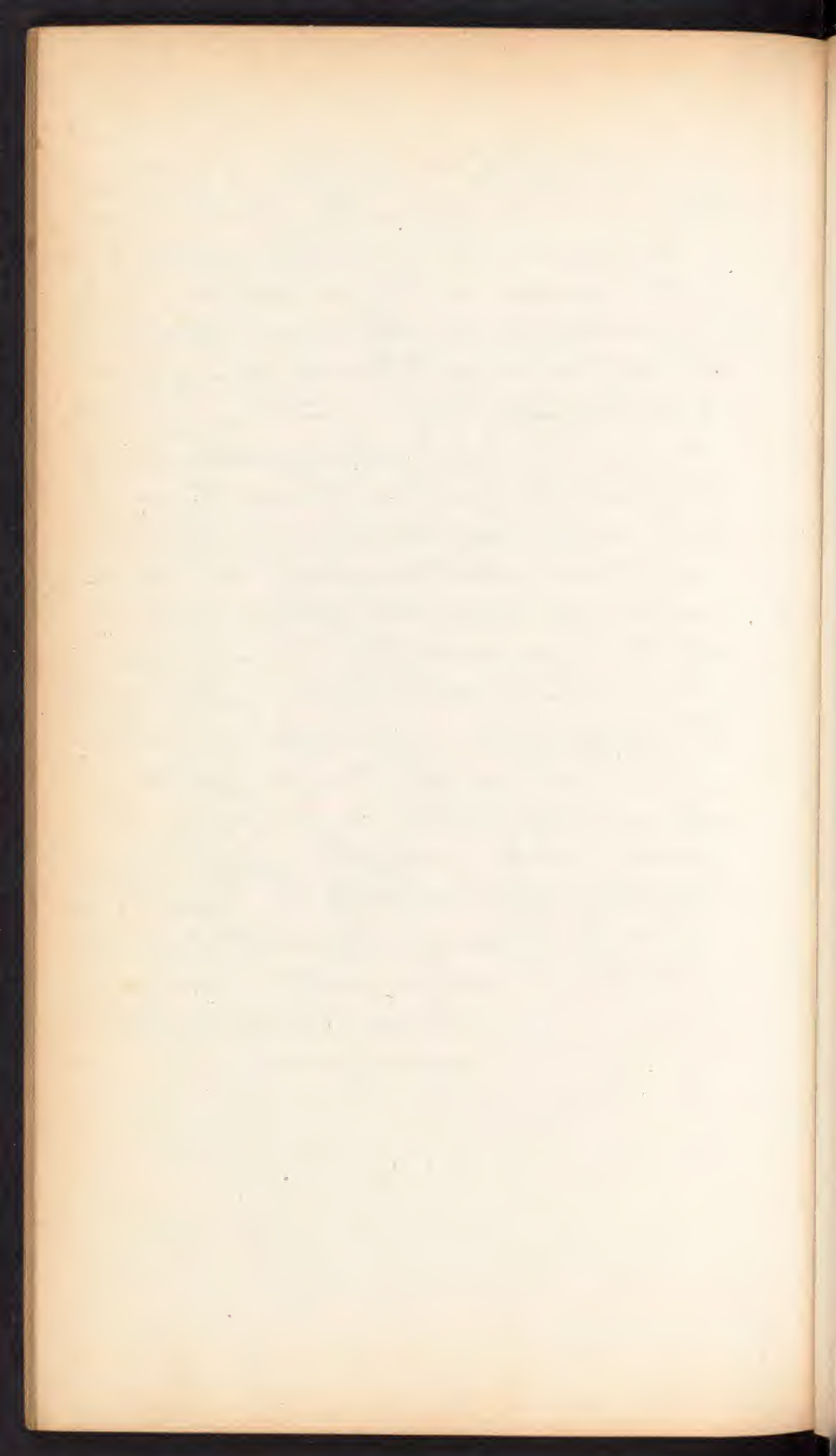
Palliative Treat use ice cold  
water. Evacuate bowels very quick  
never let him overexert at night  
simple diet - Administration of Lac  
every night and Balsam Copaiwa  
If Bleeds this wont do - must use strong  
cold water strong app - Solution of  
Iannu - a good preservative in  
Rhottamy -

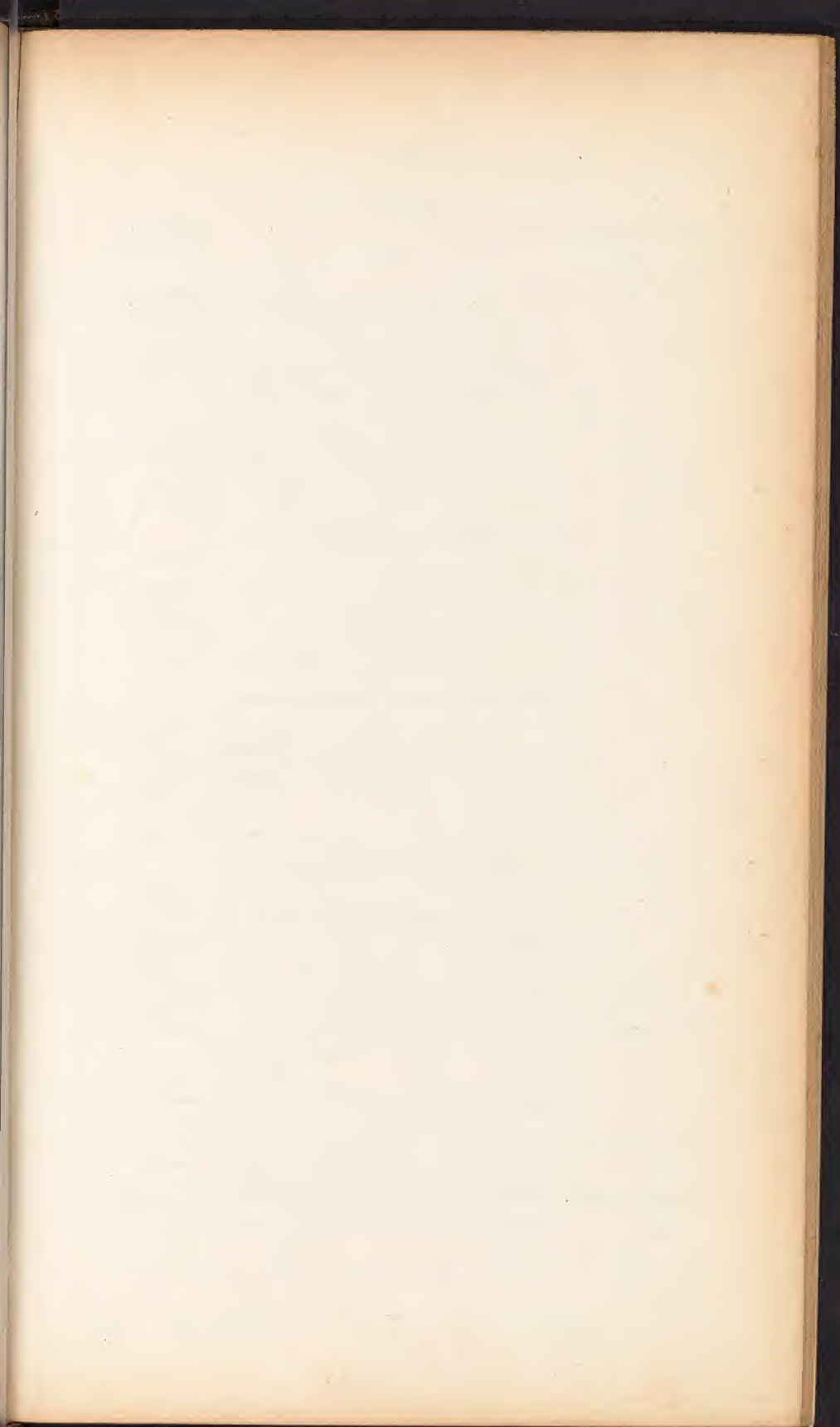


Rad. I. depends on kind - If  
have hard bloody tumor - cut  
out pile - only in this one case -  
If one acute inflam. warm or cold  
palliate first - attempt to put in Nitro  
Oxide get back If tumor solid cover skin or  
mucous membrane cut off after passing  
needle through and let thread out  
so as to pull out, (only employ in  
these bleedings pull out and tie  
vessel or apply actual cautery -  
If have erectile tumors cut off  
apply ligature Nitric acid pull tumor  
down Rub it out minute wash  
Alkaline solution or strangulated  
the tumor cauterize - wash tumor  
with benzoin - and push back  
Open Lig. - Put force tumor down  
put wire out and strangulate  
cut the skin - if any covers and  
let wire - pass needle in let canula  
remain on 4 or 5 days -

---











RECTITIS.

*Definition.*  
*Varieties.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

ABSCESS OF THE RECTUM.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

ULCERS OF THE RECTUM.

*Varieties.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

FOREIGN BODIES LODGED IN THE RECTUM.

*Nature of these bodies.*  
*Mode of introduction.*  
*Symptoms developed by their presence.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

STRICTURE OF THE RECTUM.

*Definition.*  
*Varieties* —1. Spasmodic, 2. Permanent.  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

SCIRROUS OF THE RECTUM.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

ESTABLISHMENT OF AN ARTIFICIAL ANUS IN CERTAIN CASES OF COMPLETE  
OBSTRUCTION OF THE RECTUM.

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## XIV. INJURIES AND DISEASES OF THE URINARY APPARATUS.

\* Under this head is included all the affections of the Kidney, Ureter, Bladder, Perineum, Prostate, and Urethra.

### I. AFFECTIONS OF THE KIDNEY.

#### WOUNDS.

*Varieties.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

#### NEPHRITIS.

*Varieties.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

#### ABSCESS IN KIDNEY.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

#### PYELITIS.

*Definition.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

#### HÆMATURIA.

*Definition.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

Wounds of Abdomen Superficial where the viscera or peritoneum is not injured - penetrating where sharp instrument may go through the abdomen and penetrate everything within. In slight wounds of intestine if only third of an inch long put back without stitches if larger don't put back without sewing with glove suture where cut across some say make artificial anus - Randolph incriminated not very good because mucous and serous surfaces don't adhere adhering to operation by putting hollow cylinder don't use it - two operations recommended by Guthrie - Lambert was said to give - 1. through to intestine second muscular fibro cellular and mucous pass delicate needle armed with thread bring in contact 2 serous surfaces (the open of Lambert) Pass the needle through ends of intestine The suture and by approximating along the edges traction the edges thus brings in contact two serous coats - don't put the threads too close Lambert's open - differ in not putting tissue through mucous membrane In closing external wound never put a suture through muscular punctate only through skin if do it leave open



Stomach 3 kinds - without external wound. 2. Small punctured wound  
3 Lacerations and small cut wound  
2 where portion of stomach carried away  
- When called see if has laceration  
or if mere prostration if has laceration  
has vomit and also vomit blood -

In a 15 minutes the whole abdomen is  
distended and excessively tender

Prognosis - Very grave - danger is  
peritonitis sometimes the effusion of  
plasma so rapid ~~and~~ that nothing

Treat - Peritonitis chief danger  
are active antiphlogistics Suction  
with sag recumbent posture  
Animal better operate by incision  
Inflame - touch up

If stabbed the contents come out  
Don't dilate wound or authority -  
put patient on face or side but  
the blood come out - when stops  
close the cut wound - If hemorrhage  
is great stop by bleeding to  
syncope - If small wound cut  
and suppose some symptoms of  
prostration - escape of air -  
dilate wound so as to avoid  
wounding cut away the wound  
and sew up the stomach - Sew up  
external wound patient on his  
face

If have a large portion taking away  
may live don't rely on sewing but  
let your stitches go through the abdom-  
inal to prevent it moving about. Use  
great shot anchor - at 5-day open the  
wound by Injection -

Intestine - Same classification -  
can find out no fistula Immense Hypo-  
am evacuation of blood great pain  
and shock - never cut open Abdomen  
antiphlogistic - In 5-6 hours have  
flies escape of sulphur hydrogen -

Treat - If you shot wound is cut  
into wound on dependent - position  
In you shot water dressing as much  
thorough in clean cut close with shot  
and adhesive plaster - look out here  
for suppuration - Where intestine is  
wound if can feel it or see it break  
about and sew it up - if can't close  
external wound partially and put on  
a poultice may have fistula -

Liver - considered very fatal - may be  
torn by blow rupture external wound  
diagnoses - if Liver be lacerated pale  
less pain in right shoulder extreme  
prostration jaundice - Treat  
Bleed him if possible - Inflammation  
Treat - bound of gall bladder  
have recovered but generally  
die - prog cautious -



Wounds of Spleen - 3 kinds - very dangerous. Laceration indicated by great prostration, great internal hemorrhages make him pale - bleed from the wound - an accumulation of blood often gives rise to intense peritonitis - If laceration of wound profuse hemorrhage show nature of wound it does not dilatable rely on internal remedies. If protrusion and no wound push back if lacerated and torn cut it off tie up. Blood vessels look out for peritonitis Wounds of large vessels - get hold of vessel and tie - If wound penetrates and great prostration turned abdomen put finger in wound and if comfortable it holds it and don't let go, dilate wound and tie up - If acuta dead in a minute -

Concussion of Abdomen - From severe blow - usually concussion of Solar plexus, prostrated, sleepy, pupils constricted skin - if no vomiting only cold feet - Being in reaction put him in a warm bed mustard plaster infect brandy water up the neck.

Tumors - See superficial where tumor is between the abdominal wall and peritoneum - If accumulates tumor or not painful arising from blow form a fatty tumor or if a tumor comes from a blood and fluctuating generally pus if hot and can make it disappear by pressure - If globular tumor is small not inconvenient if left in place

lethal danger from erysipelas  
or peritoneal infection - If very large  
take the risk - If peritoneum contains  
much blood the wound if size of fist  
go on cut out peritoneum - If patient  
comes with swelling of belly, may be pyrexia  
may represent complication of abscess  
ovarian tumors and both ovaries when  
encapsulated and sometimes in nodules  
may be fixed or not may fluctuate  
or not of movable diagnosis very  
difficult as one can tell what is  
it. If cut in & tumor has formed.

Extensive adhesion the patient will  
die - very often they are embedded  
or stuck in large basal hemorrhage  
another danger of Peritonitis - opinion  
of best surgeons say not cut out  
If tumor small person young and  
female may cut out - generally large  
for years in ovarian tumors - Two  
operation greater and lessen the  
laying open the whole abdomen  
lessen a small incision. Size tumor  
draw it to surface tape let out  
fluid draw out see the it and put  
back after it slough off

Fistula in small cases apply  
toward to keep the faces from flowing  
in large open the edges close  
the wound in End Conformed with  
Artificial anus



gas trouble - Patient's swelling  
large body & young use to great  
inflame - If can feel it take  
it out make an incision and get  
down to stomach take <sup>out</sup> by small  
orifice - Pumping out stomach  
only useful in cases of most  
concrete character - To introduce  
the tube place patient in sitting  
position have finger ready push  
tongue back and push tube down  
throw down warm water and  
draw it out

ALBUMINURIA.

*Definition.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Dissection.*  
*Treatment.*

DIURESIS SIMPLEX.

*Definition.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Dissection.*  
*Treatment.*

DIURESIS UREOSA.

*Definition.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Dissection.*  
*Treatment.*

DIURESIS SACCHARINA.

*Definition.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Dissection.*  
*Treatment.*

DIURESIS CHYLOSA.

*Definition.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Dissection.*  
*Treatment.*

DIURESIS SEROSA.

*Definition.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*

SUPPRESSION OF URINE.

*Definition.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*

URINARY CALCULI.

*Definition.*

*Forms assumed by Calculus Matter.*—*a.* Amorphous sediments. *b.* Crystallized sediments or gravel. *c.* Solid concretions or Stones.

1. *Amorphous Sediments and Gravel.*

Lithic Sediments—

*a.* Yellowish sediment.

*b.* Red or lateritious sediment.

*c.* Pink sediment.

Crystallized Lithic Deposites.

*a.* Red gravel.

Oxalic Acid Deposites.

Phosphatic Deposites—

*a.* Triple Phosphate, or Phosphate of Ammonia and Magnesia.

*b.* Phosphate of Lime.

*c.* Mixed or fusible Phosphates.

2. *Stone or Calculus.*

*Varieties.*

*a.* Lithic acid.

*b.* Lithate of ammonia.

*c.* Phosphate of Lime or bone-earth.

*d.* Phosphate of Ammonia and Magnesia, or Triple.

*e.* Phosphate of Lime and Ammonia, and Phosphate of Magnesia, or mixed Phosphate, or Fusible.



Urinary Calculi - are stones developed by salts which exist naturally in the urine though sometimes they are found to consist of those which generally do not exist in the urine. Hence the key to the treatment is to modify the urine. Most calculous deposits are formed originally in the kidney and they go to the bladder in the form of sand they may be contained however in the kidney, ureters bladder, prostatic gland or Urethra. Causes predisposing & local - 1. Sex - the male urethra from its tortuous course is liable to retain the urine in the little sacs - 2. Race, hardly ever found in the negro - 3. almost peculiar to very young & very old subjects - death runs in families some in which every member is troubled with stones, this gives an important indication for treatment and always in dears to remove the death is by change of diet climate water &c - 4. This is a disease of the temperate zone Not near as often finding it in hot & very cold climate the reason of this very obvious for the close relation existing between the Skin and Kidney causes the latter to sympathize whenever any change occurs in the Skin by gradation of temperature - hence in climates constantly cold the two have time to accommodate themselves the same takes place in in hot climates - but in temperate countries where changes in the weather are very sudden the this mutual accommodation cannot take place and hence it acts as a predisposing cause of stone & Made of life this is a disease of the rich in consequence of their luxurious habits and indolent temperamental - and every constant disorder in

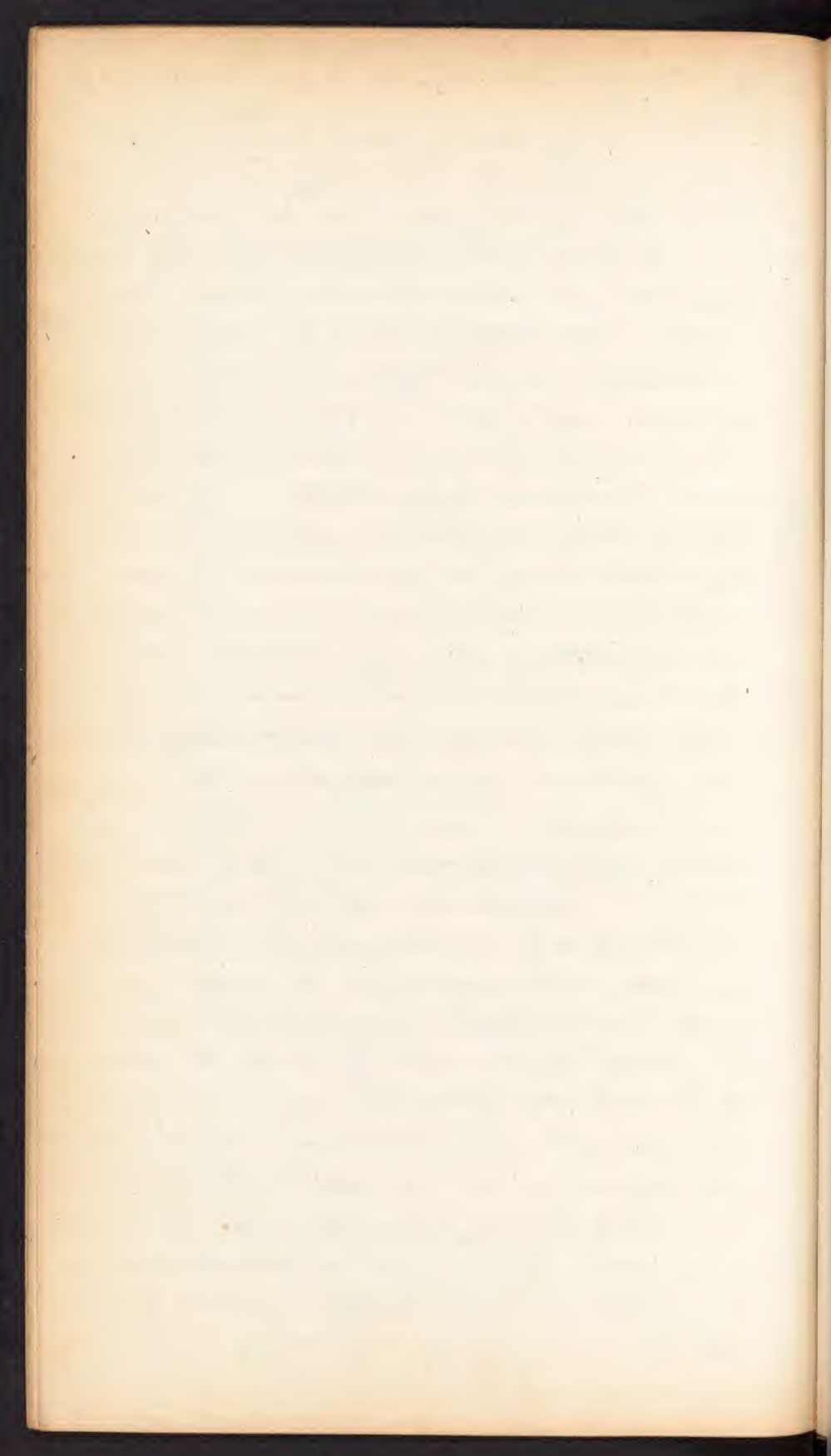


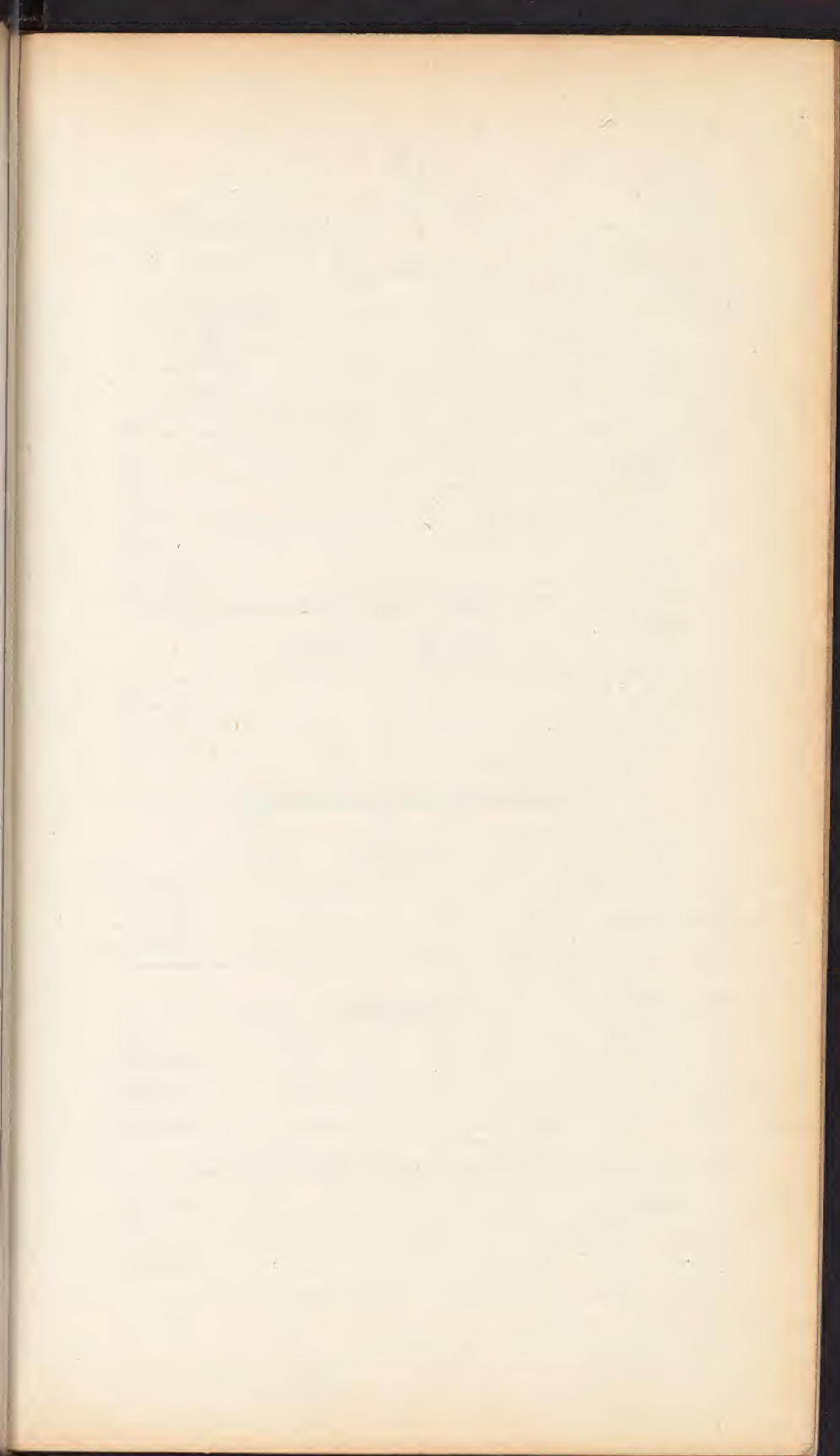
the deposition of urates and uric acid in the habit of body. Water - Some towns in England furnish a great number of cases and hence many surgeons suppose the water to be a predisposing cause, the probability is that other causes have existed in these regions, not known to us - for this in some districts of this nature the use of affective persons is very great - yet in others we can find only isolated cases capable of being referred to other causes - Dyspepsia will cause it by inducing a sympathetic disorder of the urinary apparatus - We may have deposit of uric acid after urinating must not be alarmed by this deposit (red or white) give mercurial pills regulate the diet will stop its devel.

Local Causes - Stricture of the urethra by preventing the bladder from being perfectly evacuated retention of the remaining urine causes the salts to be deposited and in this manner gives rise to stone. Enlarged prostate in the same way - Sac of the bladder by giving a nucleus will develop stone. Paralysis from any cause, will give rise to it, hence the ind. in such cases to decant off the urine night and morning Chronic Inflammation by giving a nucleus as a drop of blood pus, lodgment of various bodies whether foreign or otherwise which serve as nuclei

Size of stones - They vary from size of a mustard seed to very large size - the largest ever taken from bladder of a man weighed 44 oz. Vary in form this often indicating the kind - If they are rough looking like a cornet-burn In all probability they will be of st. of lime - Phosphate stones are never rough but are the hardest and most firm. Number varies from one to 12000. Generally deposited around a nucleus in the form of laminae the laminae burn found to consist of different deposits - showing in consequence a striated appearance the Nucleus is not always in the centre but may be on one

Side, some stones are formed without any nucleus.  
by detrital Aes connected together by cement according  
to Woodworth.









- f. Oxalate of lime or mulberry.
- g. Carbonate of lime.
- h. Alternating.
- i. Mixed.
- j. Cystic oxide.
- k. Xanthic oxide.
- l. Fibrinous.
- m. Silicious.
- n. Prostatic.

*Origin and increment of calculi.*

*Forms of calculi.*

*Size.*

*Specific gravity.*

*Surface.*

*Colour.*

*Odour.*

*Nucleus.*

*Consistence.*

*Chemical composition of the individual calculi.*

#### CALCULUS IN THE KIDNEY.

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

## II. AFFECTIONS OF THE URETER.

#### WOUNDS.

*Varieties.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

#### INFLAMMATION.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

#### PASSAGE OF CALCULUS MATTER ALONG THE URETER.

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

STONE IN THE URETER.

*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

DILATATION.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

III. AFFECTIONS OF THE BLADDER.

WOUNDS.

*Varieties.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Dissection.*  
*Treatment.*

RUPTURE.

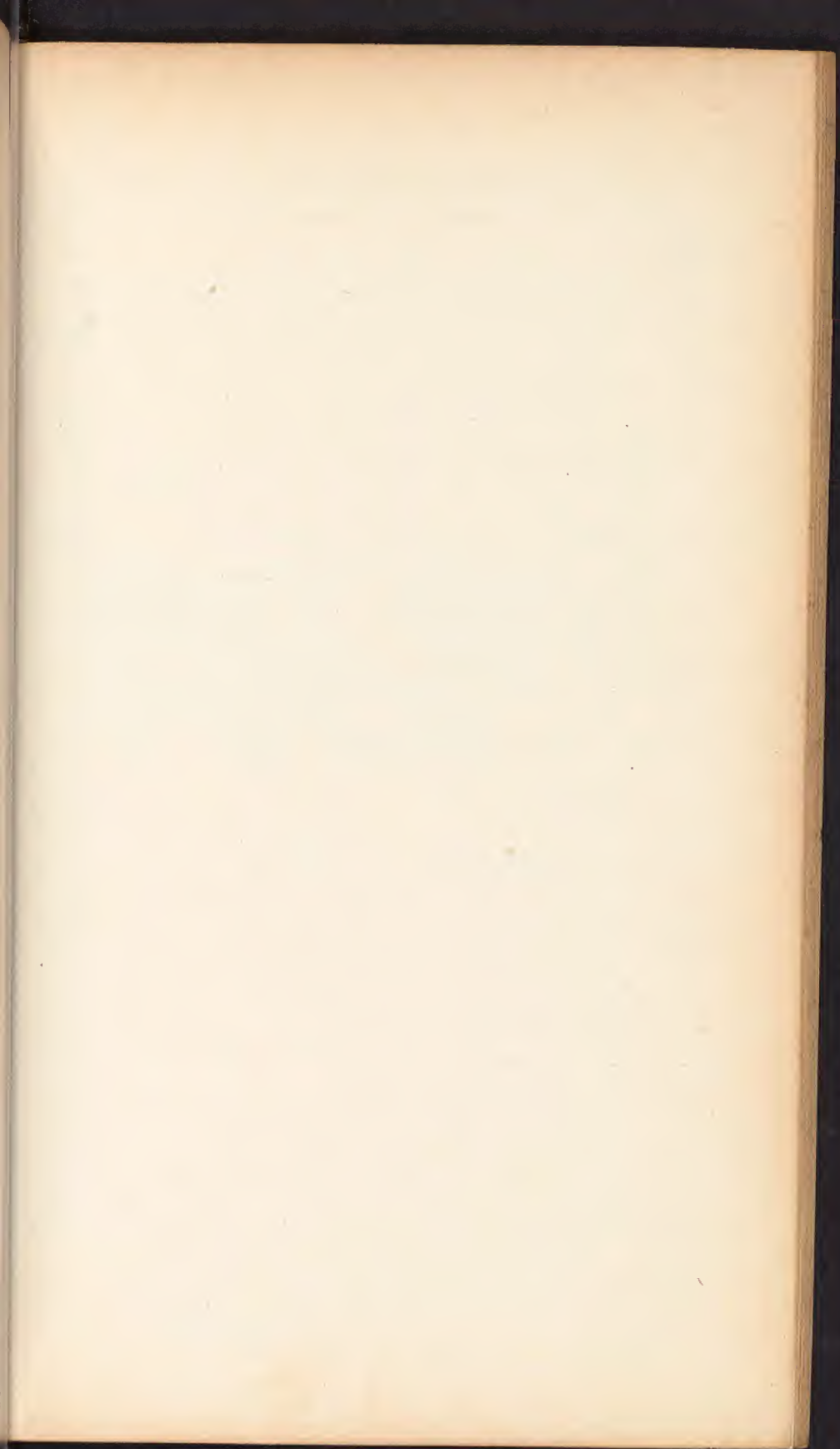
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Dissection.*  
*Treatment.*

ACUTE INFLAMMATION OF THE MUCOUS COAT.

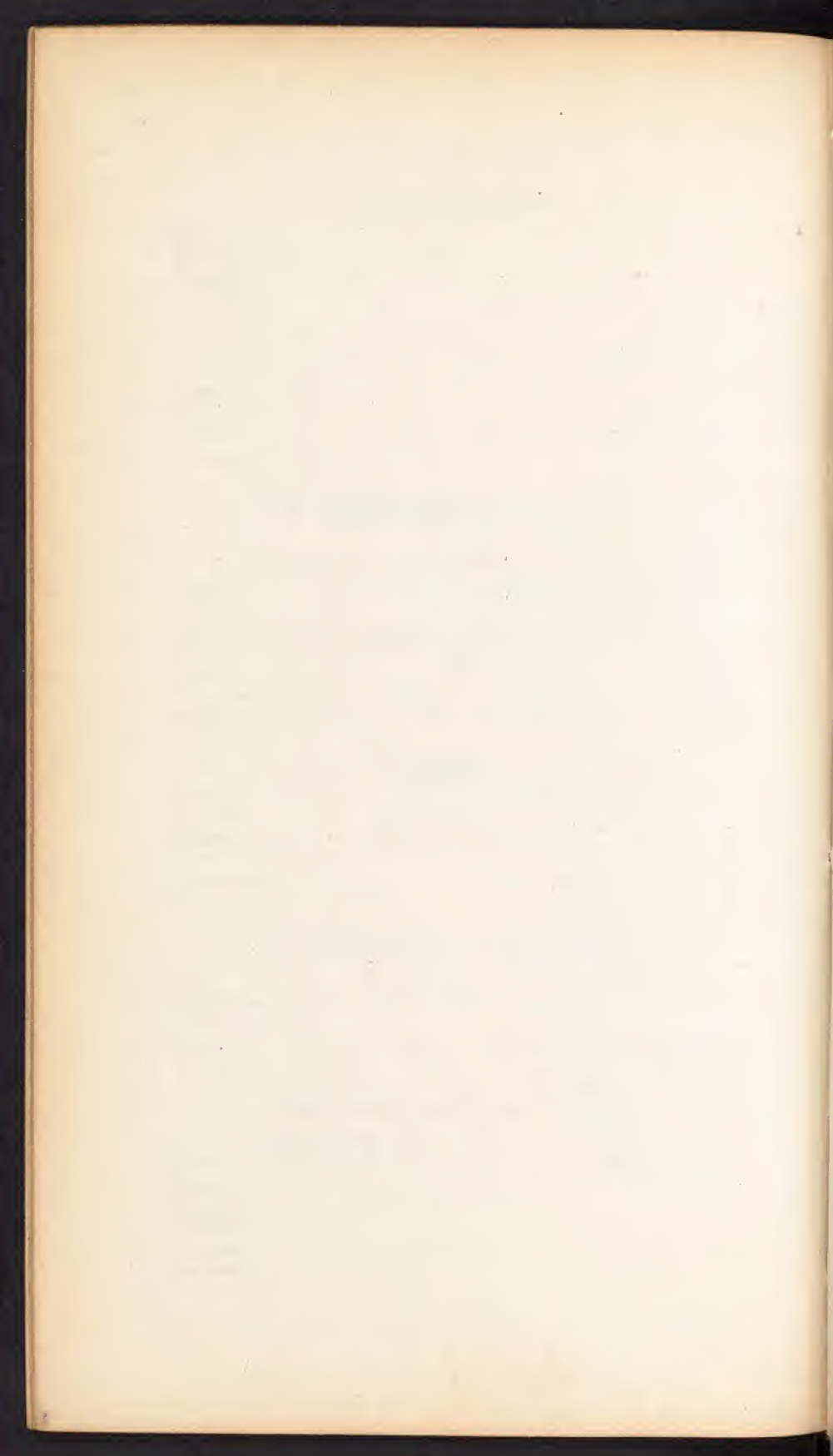
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

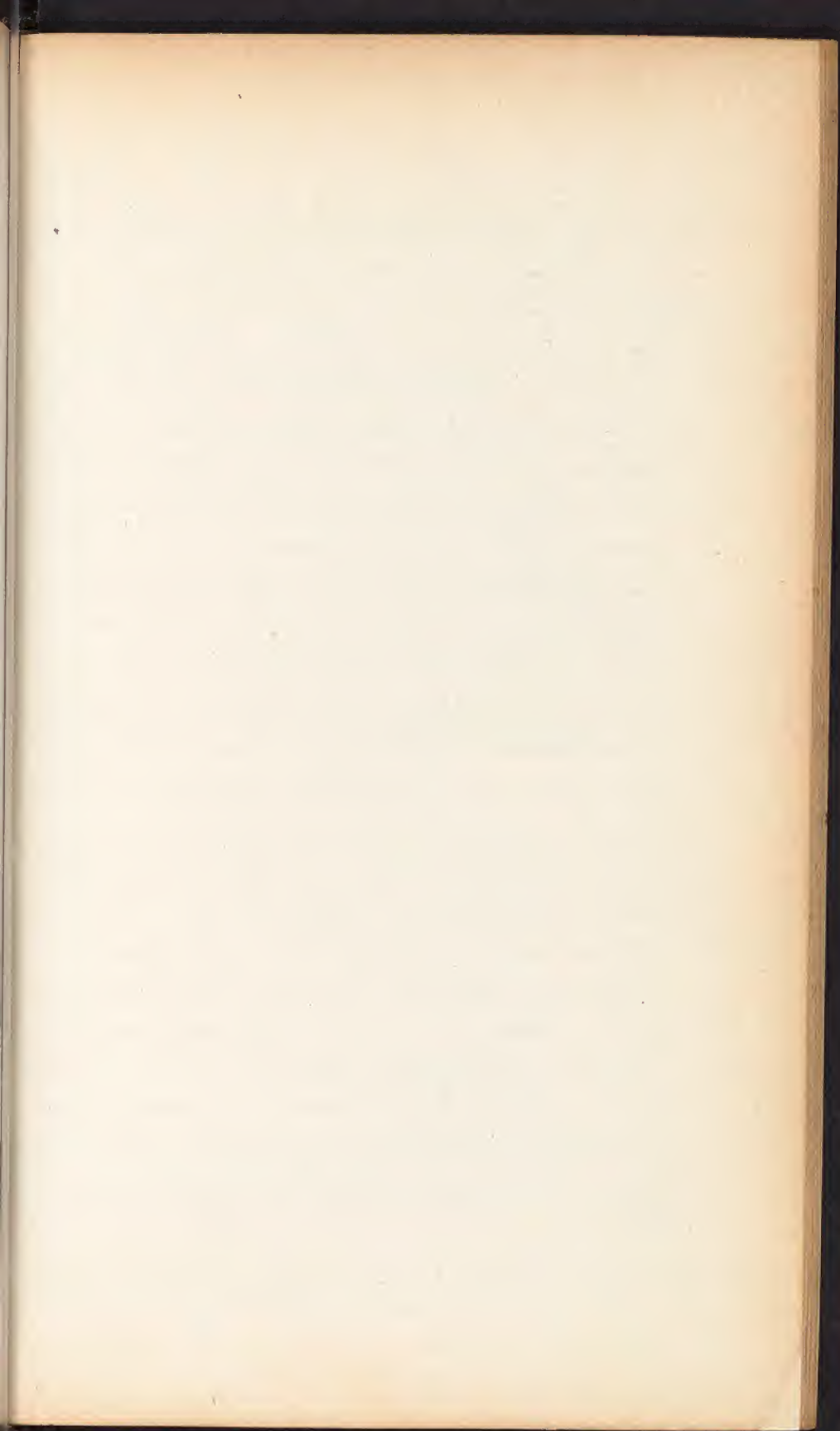
CHRONIC INFLAMMATION OF THE MUCOUS COAT.

*Synonyme.*—Catarrhus vesicæ.  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Dissection.*  
*Treatment.*

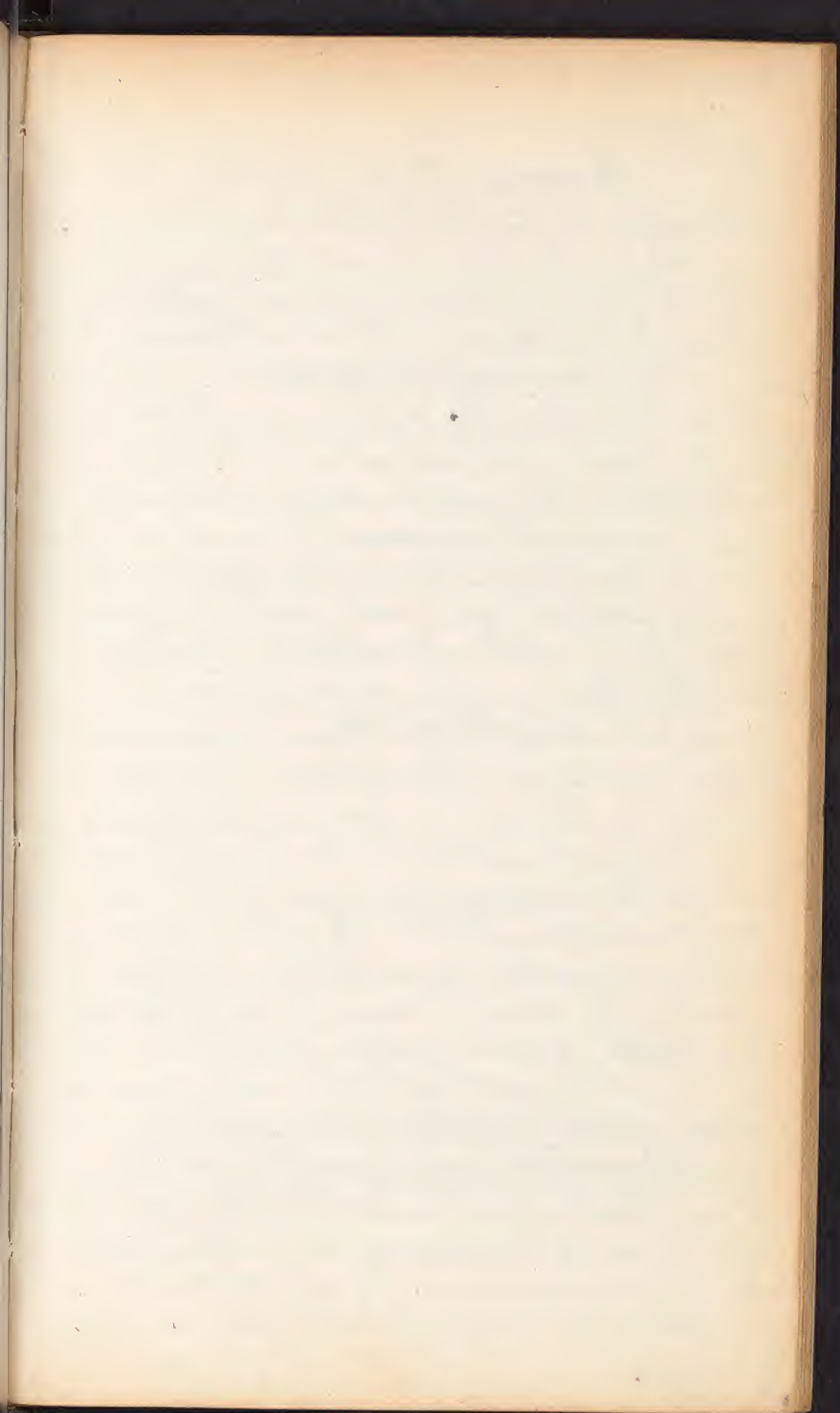














Retentive

~~Stricture~~ differ between Retentive  
and supp - 1. May be slow or sudden  
by an injury - 2. Inf. 3. no inflammation  
prompts this in dentition. Moral Mutation  
4. Mechanical Causes. Always ascertain  
cause before we use treatment. generally  
happens in male. If - find in female a  
calculus. Moral - or a stricture, and in  
Uterus Gestation - Symptoms vary - may be  
sudden or gradual - and may be intermittent  
Extreme agony no pain to be compared  
doubbling abdominal pain and swelling exists  
for any time, with produced fever, and  
can't be still, may be mistaken, a  
constant doubling takes place by being  
forced out of dress. If he says I am  
unable - by drink - &c - again goes away  
in 1/2 hour - it is Spasm - and sometimes  
the muscles perineum working - If he says  
never had before. prob'd of young sub  
prob - is stricture, if irregular in life  
certain - If the person prob'd is enlargement  
of prostate gland - feel by rectum - If  
in Female, ask if so evering by a  
spasm if not sudden Some mechanism  
of intermission - from faulty curvature.  
Prog - If Spasmod and patient sub  
can cure; if Mechanical stricture  
If an enlargement, of prostate gland  
or thick of bladder can't cure only  
surgical

INFLAMMATION OF THE MUSCULAR COAT.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*

INFLAMMATION OF THE PERITONEAL COAT.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*

IRRITABLE BLADDER.

*Definition.*

*Causes.*—Teething, &c.

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*

SPASM OF THE BLADDER.

*Definition.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*

PARALYSIS OF THE BLADDER.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Dissection.*

*Treatment.*

RETENTION OF URINE.

*Definition.*

*Causes.*— $\frac{1}{2}$ Paralysis of bladder.  $\frac{1}{2}$ Inflammation of bladder.  $\frac{1}{2}$ Spasm of the neck of the bladder, from cold, excess in wine, cantharides, &c. Irritation produced by dentition, hysteria, &c.  $\frac{1}{4}$ Enlarged prostate, displacements of the womb, pregnancy, stricture of the urethra, calculus, laceration of urethra, abscess and tumours of the bladder.

*Age most liable.*

*Sex most liable.*

*Symptoms.*—Depend very much on the cause.

*Diagnosis.*—Incontinence, tumour of the bladder, &c.

*Prognosis.*—Depends on the cause.

*Treatment.*—*a.* Warm bath. *b.* Opiate injection. *c.* Evacuant injection. *d.* Loss of blood, general and topical. *e.* The catheter. *f.* Forcing the stricture or dividing it, where it exists as the cause of retention. *g.* Puncturing the bladder, which may be done in three places by the *rectum* above the *pubes*, or by the *perineum*. *h.* The inhalation of ether.

*Remedies useful in certain rare cases.*

*a.* Quinine in intermittent or periodic attacks.

*b.* Caustic bougie in irritable neck of bladder or spasmodic stricture.

*c.* Affusion of cold water in relaxed patients.

*d.* Strychnia in paralysis of bladder.

*e.* Alkalies, when the urine is too acid.

*f.* Large doses of opium, and perfect quiet when the usual modes of relief fail.

#### INCONTINENCE OF URINE.

*Definition.*

*Age most liable.*—Early life and advanced age.

*Causes.*—Diseased urine; habit; irritable bladder, hereditary predisposition, paralysis of the sphincter vesicæ, from any cause, &c.

*Symptoms.*

*Diagnosis.*—Retention of urine, contracted bladder, &c.

*Prognosis.*

*Treatment.*—Depends on the cause.

#### HYPERTROPHY OF THE BLADDER.

*Definition.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

#### CONTRACTION OF THE BLADDER.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

#### SACCULATED BLADDER.

*Definition.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*



If returns generally, cure

If person comes he or can't pass water by  
a specum - may relay, hot bath - Bleed  
him. Opium - by rectum - if got other  
give him, or chloroform - save his blood  
Sometimes this fails - introduce catheter  
don't use force coax it - pass gently

If permanent Stricture keep him under  
ether, take silver catheter have Stilettes  
pass cannula and put the Stilet and  
do the same larger one, then gradually  
put in catheter itself if Stricture is extensive  
and shall operate or not - if sclent it is  
better to open urethra, and divide Stric

If Chronic better to tap bladder If have  
an enlarged prostate Coax the catheter  
or must put an incision and cut  
gland, have have catheter, tipped an  
beveled on one side according to  
side enlarged - may use with or without Stilette  
take a common wire - and bend it. introduce  
in catheter, and it will raise the point  
may put it in by feeling in rectum, and then  
push up its curve, and after if this  
won't do bend wire still more - if can't  
get in this way, operation - tap bladder  
in Paralysis - no pain - only man  
pass Cath and take away wire

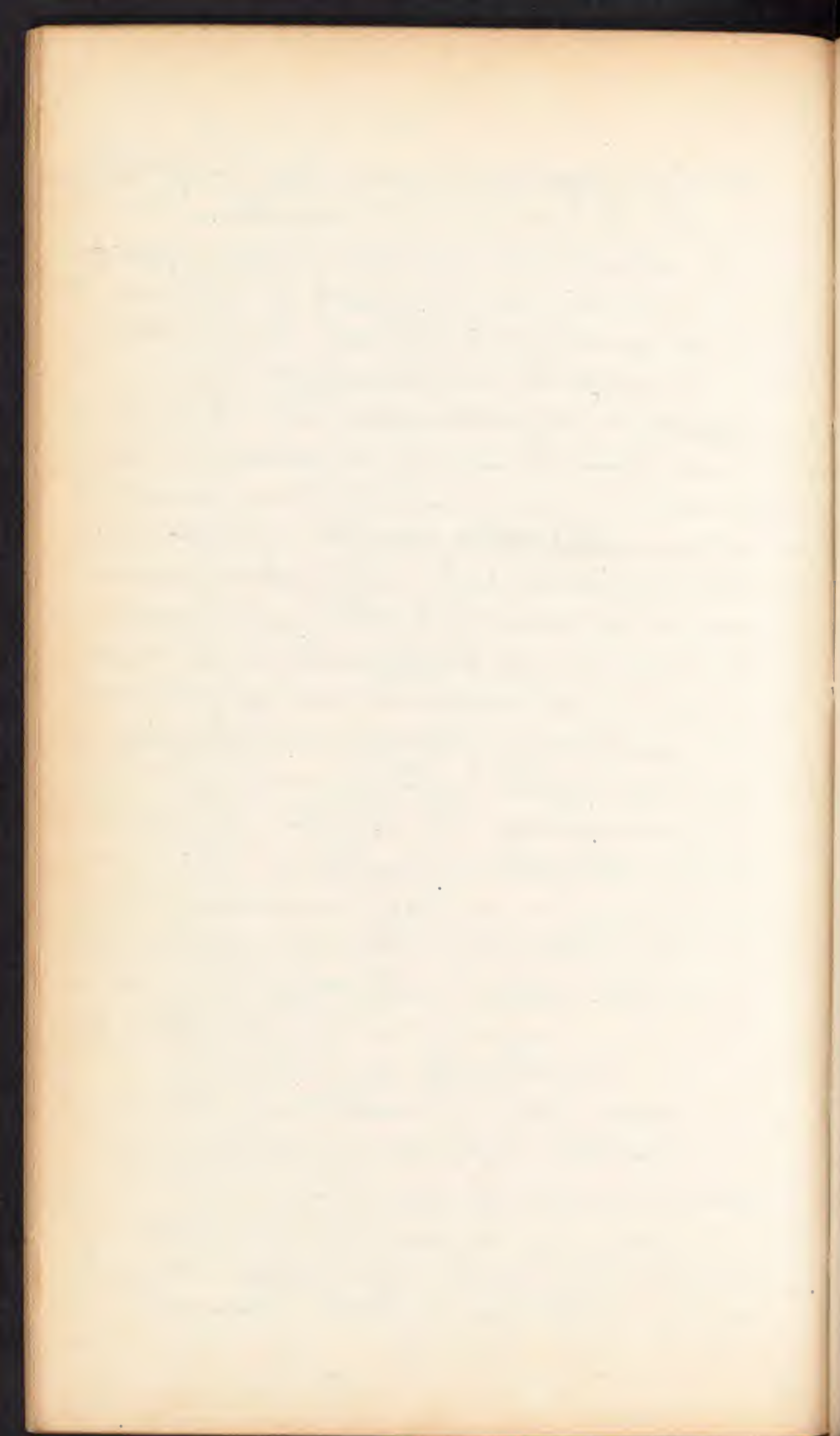


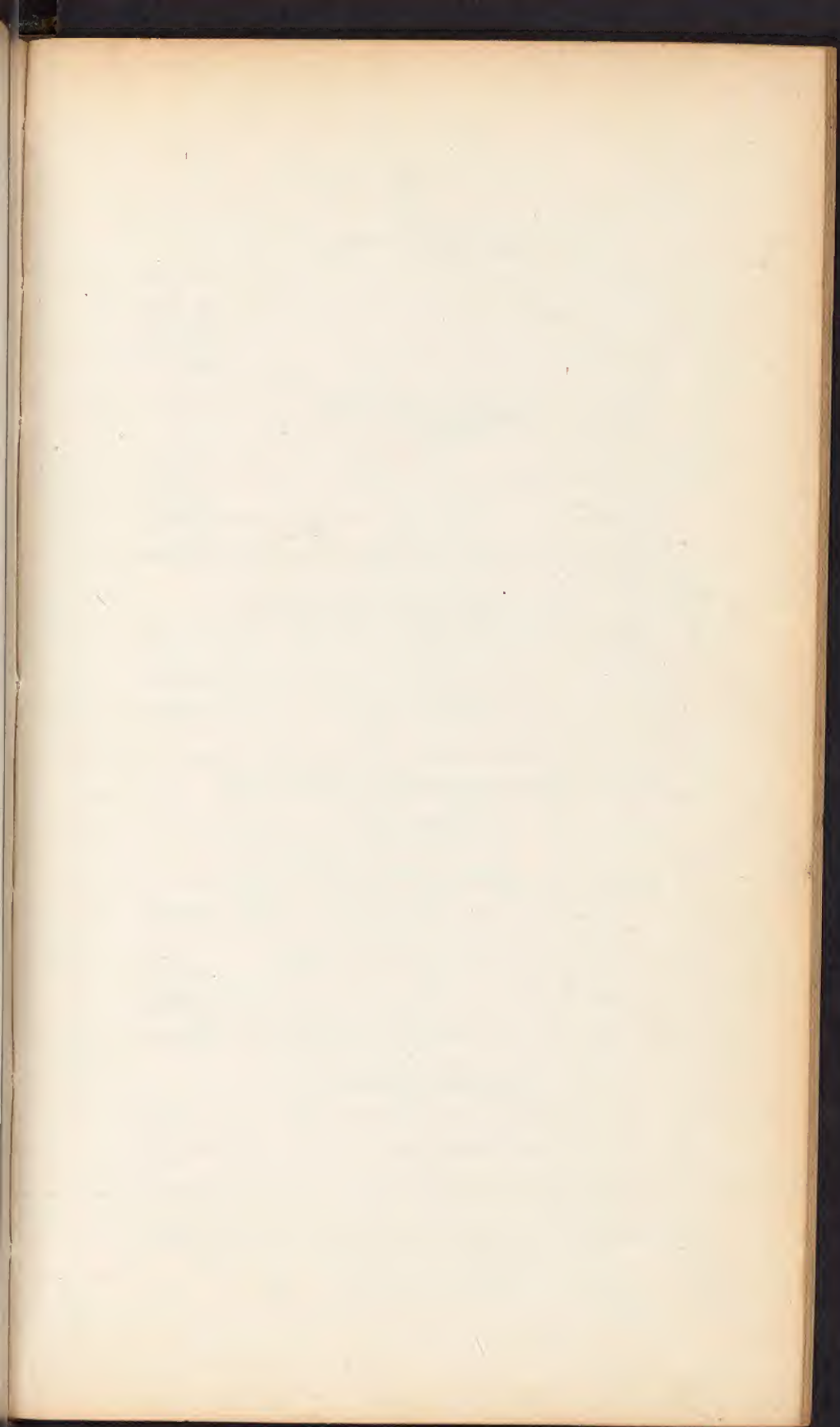
If stone lodges in neck of bladder push  
back by sound - and if cant do this  
operate - sometimes must tap bladder for  
lacerations of perineum -

Three oper - for tap bladder if lithotr  
laser - cut through perin - If through the  
inlay - Post - oper through the pudor  
above the pubis - between the bone and  
Peritonem and bone - cut through the skin  
and dissect attached to the pudor by  
tapes passed round - In laceration make  
incision in perin. In intermittent tendency  
must be broken up - By quinine w  
something of this kind - Another cause  
is excessive irritability of neck of bladder  
cure immediately. Paralysis often  
benefit by Stuegmann galvanism -  
only to be employed in chronic cases  
great good comes from examination  
of urine - sometimes happens pain  
must wait for time large doses  
of opium -

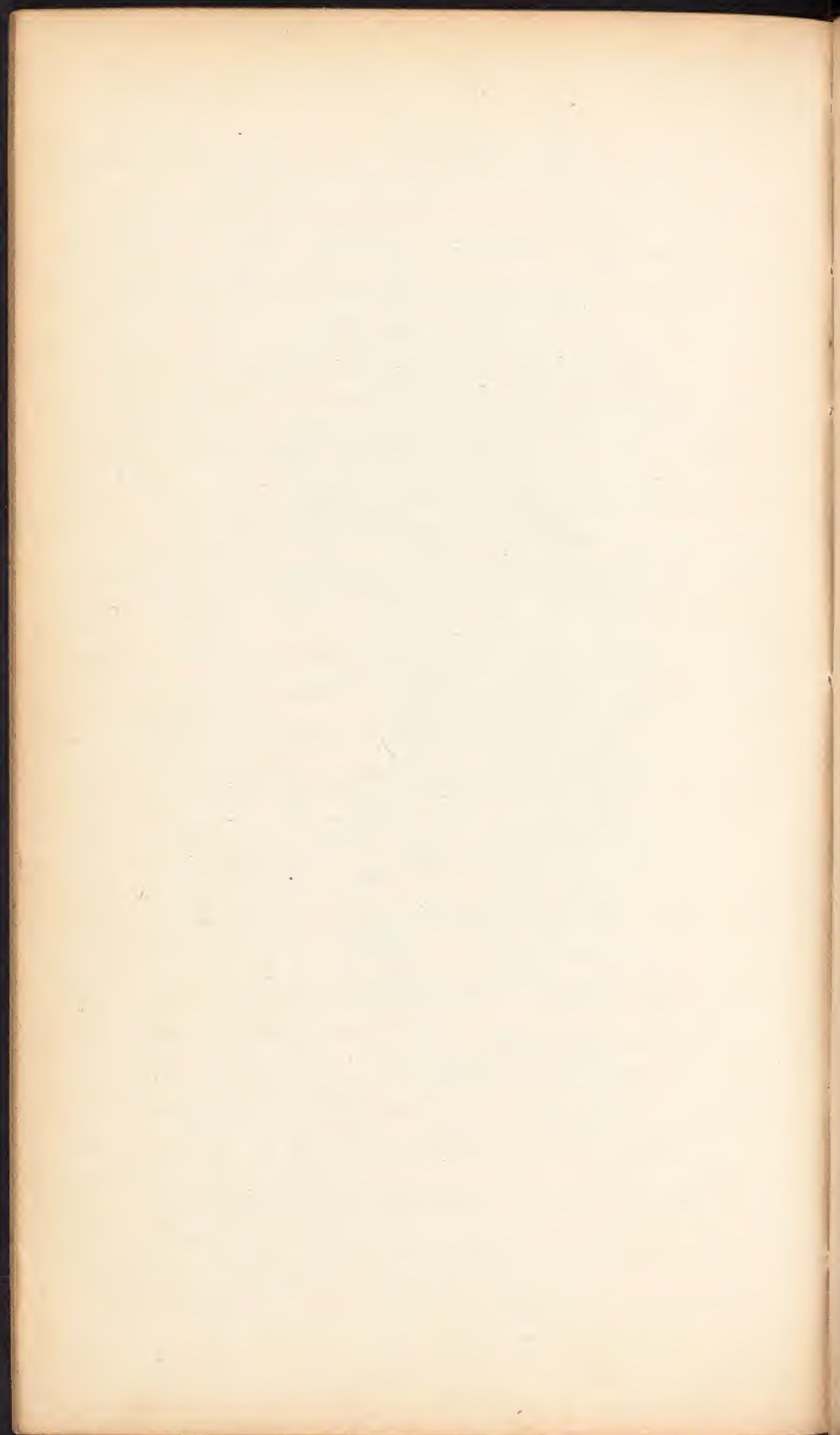
Incontinence of Urine -  
unable to retain - Cures  
may be effect of simple habit  
If alkaline or too acid not fault  
of patient. If result of simple  
habit - Cure by Raping patient  
on face - put a blister on  
sacrum, and if dont do  
give opiate.

In old person cant do any thing









ULCERS OF THE BLADDER.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

TUMOURS OF THE BLADDER.

*Varieties.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

SCHIRROUS AND FUNGUS OF THE BLADDER.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

HERNIA VESICÆ AND PROTRUSION OF THE BLADDER.

See "Hernia."

RECTO-VESICAL FISTULA.

*Definition.*  
*Varieties.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

VESICO-VAGINAL FISTULA.

*Definition.*  
*Varieties.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

## STONE IN THE BLADDER.

*Mode of formation in the bladder.*

*Causes.*—1. Predisposing. 2. Local.

1. *Or Predisposing.*—*a.* Sex. *b.* Race. *c.* Age. *d.* Constitution. *e.* Climate. *f.* Mode of life. *g.* Water. *h.* Dyspepsia.

2. *Or Local.*—*a.* Stricture of the urethra. *b.* Enlarged prostate. *c.* Sacs of the bladder. *d.* Paralysis of the bladder. *e.* Chronic inflammation of the bladder. *f.* Lodgement of foreign bodies of different kinds in the bladder, which serve as nuclei.

*Varieties.*

*Size.*

*Form.*

*Number.*

*Mode of growth.*

*Condition in the bladder.*—Encysted, or loose, or encrusted.

*Symptoms.*—Depend on a variety of circumstances.

*Diagnosis.*—Manner of sounding and use of the stethoscope, &c.

*Prognosis.*—Depends on the age and sex of the person, the condition of the organs concerned, and the size, composition, and condition of the stone in the bladder.

*Dissection of the bladder when the stone has existed for some time.*

*Effects upon the ureter and kidneys.*

*Treatment.*—Several indications.

*a.* Remove the diseased state of the urine upon which the secretion of the stone depends.

*b.* Palliate the sufferings of the patient.

*c.* Remove the stone.

1. This indication may be fulfilled by a number of agents, most of which have already been alluded to under the head of "Calculus."

2. The second may be accomplished by demulcent drinks, acid or alkaline medicine, according to the composition of the stone, warm baths, leeches, anodyne injections and perfect rest.

3. The third is answered by a variety of methods.

*a.* Extraction by the urethra.

*b.* Solution by injections.

*c.* Lithotomy, which includes—1. Cutting upon the gripe. 2. The high operation. 3. The single lateral. 4. The bilateral. 5. The recto-vesical.

*d.* Lithotripsy and Lithotripsy.

*Preparation of the patient for either of these operations.*

## EXTRACTION BY THE URETHRA.

*Cases to which it is applicable.*

*Condition of the bladder before the instrument is introduced.*

*Instruments employed.*

*Position of the patient during the operation and mode of performing it.*



Urinary Calculi are stones  
developed by salts which exist  
naturally - in the urine sometimes  
made of salts not usually  
found, in it - Key to treat is to  
modify urine, the stone is generally  
separated in kidney and goes  
down to the bladder in few sand  
causes. Tortuous course of. here more  
in male - B - The mode of life - &  
a disease almost peculiar to young  
if found in old caused by some  
other disease. Constitution - Northern  
families - Calculus tractatus - ask  
the patient - if in any of family had  
it before - and remove from place  
climate in cold and hot climates  
seldom have it - in temperate  
zone - In regular climate - The  
Mind and Kidney - Symptoms  
do not do it in ~~any~~ <sup>any</sup> vessels of  
mode of life - luxurious diet and  
indolence - and also from bad  
air & faulty - Pure water - Urinary  
regions furnish great masses  
that not only water - but other  
pruritus - h - That urine or  
sulphuric acid find red precip  
purple - lime blue Bell and Lead



Local - Causes - are mechanical  
by keeping urine contained in  
bladder long time, give time for nat.  
salts to deposit - And some the  
lugged jets of bladder - getting  
uppos - when no natural predis-  
cause - sometimes no pain -  
and paralysis - let alone and  
if have pain - operate - Sep  
of mucus - a globular mass be-  
formed a stone, nucleus <sup>ad</sup> junction  
of few bodies - wide layer of corpus  
the foundation of stone -

Symptoms - Prog. towards size -

In 99 out of one 100 cases stone is found  
in young or, very old - owing to the defective  
apparatus in middle being, in very good  
order exempt from a prominent cause  
Diathesis great many cannot be com-  
pence have it in hot or cold climate  
temperate zone that most frequent  
the why of this, the closest analogy  
exists between Kidney & Skin -  
where great changes occur - and  
disturb the equilibrium between Skin &  
Kidney - hardly ever meet with in the  
rich luxurious living generally gives  
it - hence must change mode of life  
water - limestone <sup>water</sup> to cause hardly  
can be true - Dyspepsia anything which  
will cause it

may have citric acid give blue pill and  
regulate diet with stop development if have  
white deposit the same thing occurs let  
it go on and he will have stone

Local Causes Structure of Utricle owing  
the bladder being imperfectly developed or ac-  
= uated retention of urine by permitting the  
salts to deposit inside from a nucleus -

Enlarged prostate by causing retention will  
have the same effect. Lac of bladder in  
the same manner by affording nucleus  
will develop stone - Paralysis  
from any cause - General or local  
attend to urine - evacuate  
thoroughly - Look like urine for  
formation of stone as no symptoms  
being present - urine collected night  
& morning - Chronic Inf. by some  
nucleus as drops of blood or pus or  
mucus - f. - wip

diagnoses of stones -

Stones vary in size from Mustard Seed  
to a large egg in horse one has been taken  
from a body so large as 10 in in circumference  
weighing 44 oz - vary in form - will vary  
like indicate the kind of rough looking like  
a Chestnut bur or abate of bone - sharp  
all over as rough as this - they are the  
most - Number vary from one to 12 or so

growth of urinary Cal - generally around an out-  
lamina - formed of different kinds of stone giving  
a striated appearance the nucleus may be  
in any portion of the, some are formed all at  
nucleus - by little seed connected together by



Numerous - according to DoCKETT numerous  
calculi are organized - because it can  
be marinated and find a monochrome  
and also see it by microscope - may  
is not the only animal but the whole  
and many others - Phenomena - suppose  
Kidney is any where the phenomena differ if in  
Kidney - pain in lumbar region which cannot  
remove bloody urine pain darting down  
inter-terminating in testicle retracting of  
same testicle - general health of the patient  
goes away - any other things will give  
the same symptoms but they can generally  
be removed by appropriate remedies do not  
commit yourself until formation of abscess -  
Hence danger very great in all probably  
he will die - unless let out by suppurated  
If gets in Reticulum will see patient in good  
agony anything on floor skin cold retracting  
of testicle on same side pain shooting down  
bracket and sometimes nausea and vomiting  
and frequent vomiting - the same symptoms  
occur in Macfarlane cramp Colic and  
in Strangulated hernia - hence must  
inquire if had another attack and  
has passed sand and stone -  
When gets in bladder how often this  
desire to urinate becomes frequent the stream  
stops - feels conscious of some body in bladder  
when use any uric acid also have bloody  
and smears urine and an indescribable  
sensation in the glans penis making  
him squeeze and pull the prepuce  
These generally indicate the condition  
two, may have all the symptoms

but never hazard an opinion until examined by  
a sound, some have gone from early life to  
death and never make any complaint. Stone  
may be free or encysted the latter is developed  
in case of bladder becoming lodged in the wall  
of bladder and from indulging with its contractions  
will give rise to all symptoms the rubbing callosities  
from roughness causes effusion of plasma which  
~~bottom~~ gives to side of bladder - again the plasma  
wall may be incited causing prostatic  
giving rise to intense inflammation mixing  
with mucus makes a plaster - no contraction  
of bladder must be pulled off - the effect produ-  
ced by lodgement of stone depends on location  
if in kidney it converts into a simple  
sac - giving rise to progressive absorption  
or sterile inflammation - when lodged  
in ureter - dilatation and destruction  
of organ and kidney also certain signs  
added - urine will become perfectly normal  
and pains in creased pain from collecting  
in kidney and hence the most important danger  
must use the most active treatment Bleeding  
warm bath - the bladder becomes contracted  
by the presence of stone or excessive dilata-  
tion - If lodged in neck of bladder - give  
a congestion and dilatation of colon  
and bladder - an operation or both  
a consultation will save a man's life  
it is always important to get rid of  
a stone a sound - Now some if  
comes from a fever or if in pain don't  
touch prepare him by warm bath  
by enemata demulcent drinks, the Kid



The cure must not be too great - have  
the cure short - must not be too  
large solid and smooth - down him  
first in upright posture if can't do that  
lay him down - put him nearly on  
his head to disengage the stone from  
the sac - and sound him with full  
bladder - after fasting here may be  
detected some times by empty bladder  
in fact the greater number of patients the more likely  
to find the stone. Icalmelt. 12<sup>th</sup> - Order to  
carry out this examine urine by microscope and  
acid and alkaline tests - very simple tests in these  
urine and amine paper can give a hint  
if too acid and irritating bladder changes the  
coloration. If only natural paper pink there  
may not be too much acid in urine. Have  
use alkaline treatment. If urine be so as  
to turn yellow paper to brown too alkaline  
and some turn acid - not sufficient if fail to  
see with microscope - If making urinary  
calculi will have crystals of oxalate of  
lime from drying on plate a drop of urine.  
acid bumblebee crystal among is nitrom-  
uric acid. - If crystals are arranged in laminae  
they are uric acid - uric acid is an alkali -  
if comes as sand indicates indigestion.

golden-brown in urinary calculi - In cases  
of phosphate. But in 10 cases require  
an alkali some require alkali when acid  
treatment fails - the crystals differ from  
others - Belons urine a turp muddy urine  
shows danger of irritation. Shows also that  
urine is modified by various causes - If  
patient is dyspeptic if head-ache is high and  
remove these causes by change diet habit  
climate and alkali an acid best the  
nitromuric. and vice versa can  
Patience time and benefit by shells the  
stones powder Lee's Pin. 2 dr 6 to 10 pills  
symptoms - opium great comfort large doses  
diminution drinks diuretics and mainly the  
simple infusion of Enginon Philadelphia un-  
31 to 67 ad lib 2 warm bath - Urban  
cases must employ the remedy in  
grand low pulse great agony to  
relieve pain at once. After great shall

SOLUTION BY INJECTIONS.

*Cases to which it is applicable.*

*Agents employed as solvents.*

*Manner of using them.*

*Dangers.*

*Utility of the measure discussed.*

LITHOTOMY.

1. Cutting on the Gripe or Celsian operation.

*Cases to which it is applicable.*

*History of the operation.*

*Anatomy of the parts concerned.*

*Manner of performing it.*

*Dangers.*

*Utility of the operation discussed.*

2. The High or Hypogastric operation.

*History of the operation.*

*Anatomy of the parts concerned in the operation.*

*Cases to which it is deemed applicable.*

*Supposed advantages of the operation.*

*Dangers of the operation.*—1. Peritonitis. 2. Extravasation of Urine.

3. Wounds of the peritoneum. 4. Lodgements of fragments of the stone.

5. Hemorrhage. 6. Urinary fistula.

*Instruments employed.*

*Manner of performing the operation.*

*After treatment.*

3. The simple Lateral.

*History of the operation.*

*Anatomy of the parts concerned in the operation.*

*Cases to which it is deemed applicable.*

*Supposed advantages of the operation.*

*Dangers.*—1. Peritonitis. 2. Extravasation of Urine. 3. Cystitis. 4.

Hemorrhage. 5. Inflammation with sloughing. 6. Incontinence of Urine.

7. Fistula. 8. Wounds of the rectum.

*Instruments employed.*

*Manner of performing the operation.*

*After treatment.*

4. The Bilateral.

*History of the operation.*

*Anatomy of the parts concerned in the operation.*

*Cases to which it is deemed applicable.*

*Supposed advantages of the operation.*

*Dangers.*

*Instruments employed.*

*Manner of performing the operation.*

*After treatment.*



5. The Recto-vesical.

*History of the operation.*  
*Anatomy of the parts concerned in the operation.*  
*Cases to which it is deemed applicable.*  
*Supposed advantages of the operation.*  
*Dangers.*  
*Instruments employed.*  
*Manner of performing the operation.*  
*After treatment.*

LITHOTRITY.

*History of the operation.*  
*Cases to which it is deemed applicable.*  
*Supposed advantages of the operation.*  
*Dangers.*  
*Instruments employed.*  
*Manner of performing the operation.*  
*Treatment during the course of operations.*

LITHONTRIPSY.

*History of the operation.*  
*Cases to which it is deemed applicable.*  
*Advantages of the operation.*  
*Dangers.*  
*Instruments employed.*  
*Manner of performing the operation.*  
*Treatment during the course of operations.*

STONE IN THE FEMALE.

*Symptoms.*  
*Operation to be preferred when an operation becomes necessary.*  
*Manner of performing the different operations.*

HYDATIDS AND ENTOZOOA OF DIFFERENT KINDS IN THE BLADDER.

*Varieties.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

IV. AFFECTIONS OF THE PROSTATE GLAND.

WOUNDS OF THE PROSTATE.

*Varieties.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

Lithotripsy - Can't perform if  
enlarge gland - not if strict  
antrax bladder - Irritable urethra  
And large and hard stones -  
must always perform if far Condi  
One serious object is crushing stone  
arguments - pain. the instrument  
may break - The repetitions apt  
to break conti - so as to make  
hectic -

### Stone in Female -

1<sup>st</sup> old - dilating urethra - water  
sponge into - Bony on incision  
of urine per ure - 2<sup>nd</sup> division -

2<sup>nd</sup> - cut direct up. Another  
by dividing on both sides  
Same objection even time  
in adult - very easy and  
safe in child not to be adopt  
in adults And - divide the  
mucous coat and then distend  
engaging coats - Break the  
stone is very best instrum  
Worms in bladder

Anchor - Hot bath - 1<sup>st</sup> to temperature  
the stone in bladder 3 ind - 1<sup>st</sup> extract of stone  
by urethra just by of Cooper having a  
fine instrument to carry out carried by bladder  
opened the blades and by turning the stone  
and passage can sometimes get it out if  
stone is brownish brown



absorbing of Belian process - prepares by giving  
flosses tea and henbane - to relax  
and perineum by plaster of Belladonna &  
lyellous process in spermatic action  
of bladder - so surgeons used and into the  
stone to dissolve stone - no good except by  
preventing formation of fresh stone. Can some  
times do good by injecting acid in bladder -  
where calculous matter continually passing by  
injecting into bladder. Light of urine acid  
Inject with double & dilute  
is let run out after Barley water &  
dissolving the matter  
continue operation at least once a week  
The operation of Lithotomy - 5 or 6 operation  
high Lat Belat recto vesical - ~~is~~ is  
oldest is most simple - and now is  
sometimes - cutting on grip by passing the  
finger pass up rectum - pull down the  
stone to perineum a cutting down to stone  
the oldest only of service when stone in  
prostate - the ballot introduced high up -  
some prefer it cut through rectum, rectum  
fat and cellular tissue separate pyramidal  
and separating push away portion  
if bladder is contracted relinquish the operation  
Natural operation for stone - in origin was  
suggested in all surgery - animated with a snare  
his operation was to thrust through perineum a double  
edged knife and get stone out - after this mode plan  
the staff was employed - Anatomy - the perineal  
triangle or 2 - The Integument & Sphincter - Superficial  
fascia - 3 - Deep perineal fascia or sphincter  
cut this fully - 4 - Perineal centre of layers  
of muscles the Sphincter & transversus perinei  
erector Penis and Accelerator Urinae - between  
these two the surgeon is directed to cut through  
also the transversus perinei alter - some times  
can 5 - to a dense fibrous membrane, the transverse  
ligament <sup>or middle perineal fascia</sup> and about  $\frac{1}{4}$  in below

6 <sup>membranous part of the urethra</sup> Pubis the urethra passes on it and below  
Cowper's gland - It is object in this operation  
to pass through the prostate gland and  
membranous portion of the urethra to get  
into the bladder - to do this the Knife goes  
through left side - 4 arteries - one invariably  
cut - 2 transversi - sometimes also 3 the  
membranous part of urethra and internal  
pudic - this is generally cut when the  
gorget used, the chief danger however comes  
from the vessel plexus which are much  
enlarged, Instruments required - only 3  
Knife Staff gutter on one side thus differing  
from old staff forceps those usually given  
too large - they should be demonstrated - also  
a Syringe of Stone Beaks or is encysted or  
Spoon also. As may be hemorrhage well to have  
to tie pudic run finger up the ramus of  
the pubis expect for pulsating and take it up  
with curved forceps of Physics armed with  
needle and Lig - also Dupuytren's  
instrument for stopping hemorrhage - the  
gorget Keisler was just to use it Physics  
is used in US - begin however with Scalpel  
Always shave perineum and keep bladder  
full either with urine or Barley water if  
don't attend to this may go through the  
posterior wall always hold staff perpendicularly  
Incision begins below Symphysis Pubis to back  
of anus and terminating midway between  
the tuber Ischii and anus - always get  
nail in the gutter of the staff before cutting  
thus depress handle of staff and push the gorget  
in at same time changing the angle of  
the two -



put patient to bed pooling the bed by  
oil cloth - Give him - Mixture of Iodine  
and Morphine and keeps down  
inflammation when wound contracts on the  
catheter put in smaller one and decern  
until the wound has healed - In young  
subjects apt to cut the urethra because  
the lateral is sometimes done with straight  
staff - Schaeffer's operation

~~Radical~~ operation by Smith - Nathan  
R. cutting the neck of bladder the membran-  
ous portion of urethra and left  $\frac{1}{2}$  of Prostate  
gland - Concealed Knife or Sematome Aches  
great danger of cutting with this the int-  
radic - Mott's operation - performed with  
common beaked Knife and staff advantage  
is that can touch the incision should  
the perineum be narrow - The best in-  
for open is simple scalpel but pay  
the forget of Pyrexia - Danger  
Peritonitis is very common avoid if possible  
cutting large fat masses - avoid if possible  
cutting out of capsule for will have  
many infiltration out on the other  
side of gland - Inflamm of bladder  
this treated by antiphlogistics and  
opiates - Strangling - most terrible  
if threatened must arrest by most  
active measure - Incontinence of  
urine - when the stone is very rough  
when remove the stone it size and  
rough borders paralyze the muscles of  
neck - fistula the wound healing  
almost but leaving one only generally cure  
by a probe dipped in nitric acid pushed

physis applied to blister where the  
gustula small wound of rectum - very  
sensitive here must try cure it must  
Ruff in bladder a catheter recollect that  
may pass the catheter into rectum hence  
pass finger up the rectum - having put in  
catheter dilate orifice of anus and  
introduce actual cautery at red heat

Be Latral here both sides cut first  
irregularly celcus but first introduced  
by dupuytren - anatomy is nearly same  
showing to cut between bulb &  
transverse muscle and get between the  
accelerator urinae and erector penis -  
prepare patient & select instrument -  
use Scalpel a very short curved staff  
and double Lithotome Cachet, make  
incision as in cutting across the perineum  
as in Celcus - open - when each staff  
fit the double. Knife and pass it in  
turn the Knife and expand blades  
and draw out instrument in the axis  
of inferior Strait This gives very large  
opening - Sometimes performed with  
staff and Scalpel where stone is large  
the very best - Never use double gorget  
some will contend that lithotical operation  
is very dangerous from unending infiltration  
and incontinence of urine -

Rectovesical almost entirely abandoned  
because it is accompanied with recto vesical  
fistula when can't get stone out any other  
way may perform it - pass finger of left hand  
up the Rectum - pass a curved scalpel up



and push into bladder cut directly  
down - the wound of bladder will heal  
withe - A more wisely modification of old  
Mann's operation is by passing a staff  
into the bladder and putting in forceps  
and expanding forcibly the neck of bladder  
is by Willis dilating the neck of bladder  
the patient died and hence the operation  
not recommendable

ACUTE INFLAMMATION OF THE PROSTATE.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

ABSCESS OF THE PROSTATE.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

ULCER OF THE PROSTATE.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

CHRONIC INFLAMMATION, WITH ENLARGEMENT OF THE PROSTATE.

*Causes.*  
*Persons most liable.*  
*Progress.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

CHRONIC INFLAMMATION WITH ATROPHY OF THE PROSTATE.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

POUCH OF THE PROSTATE.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

HÆMORRHAGE FROM THE PROSTATE.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

EXCESSIVE SECRETION OF THE PROSTATE.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

PROSTATIC CALCULI.

*Nature.*  
*Causes.*  
*Number.*  
*Size.*  
*Composition.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

MALIGNANT DISEASE OF THE PROSTATE.

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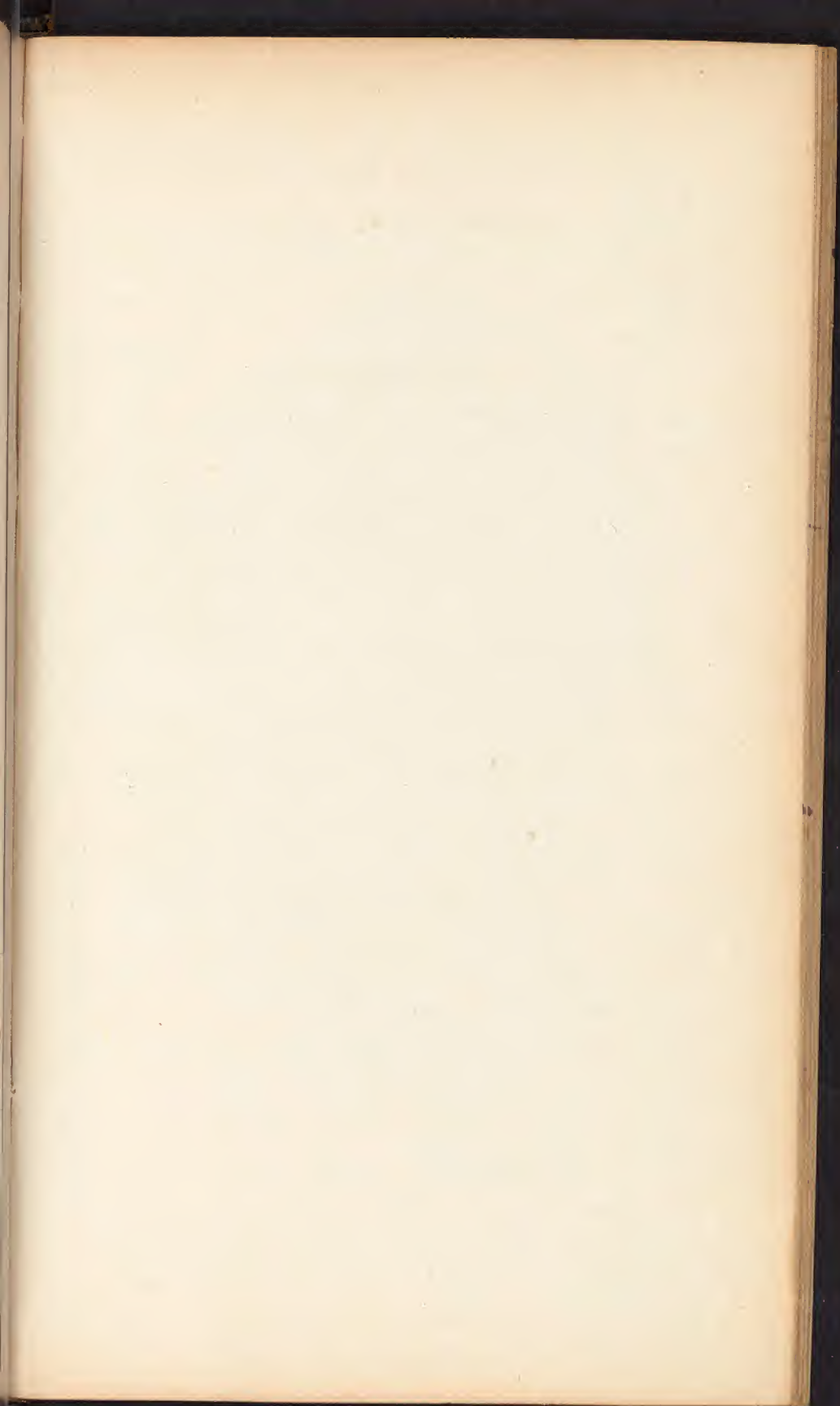
V. AFFECTIONS OF THE PERINEUM.

WOUNDS.

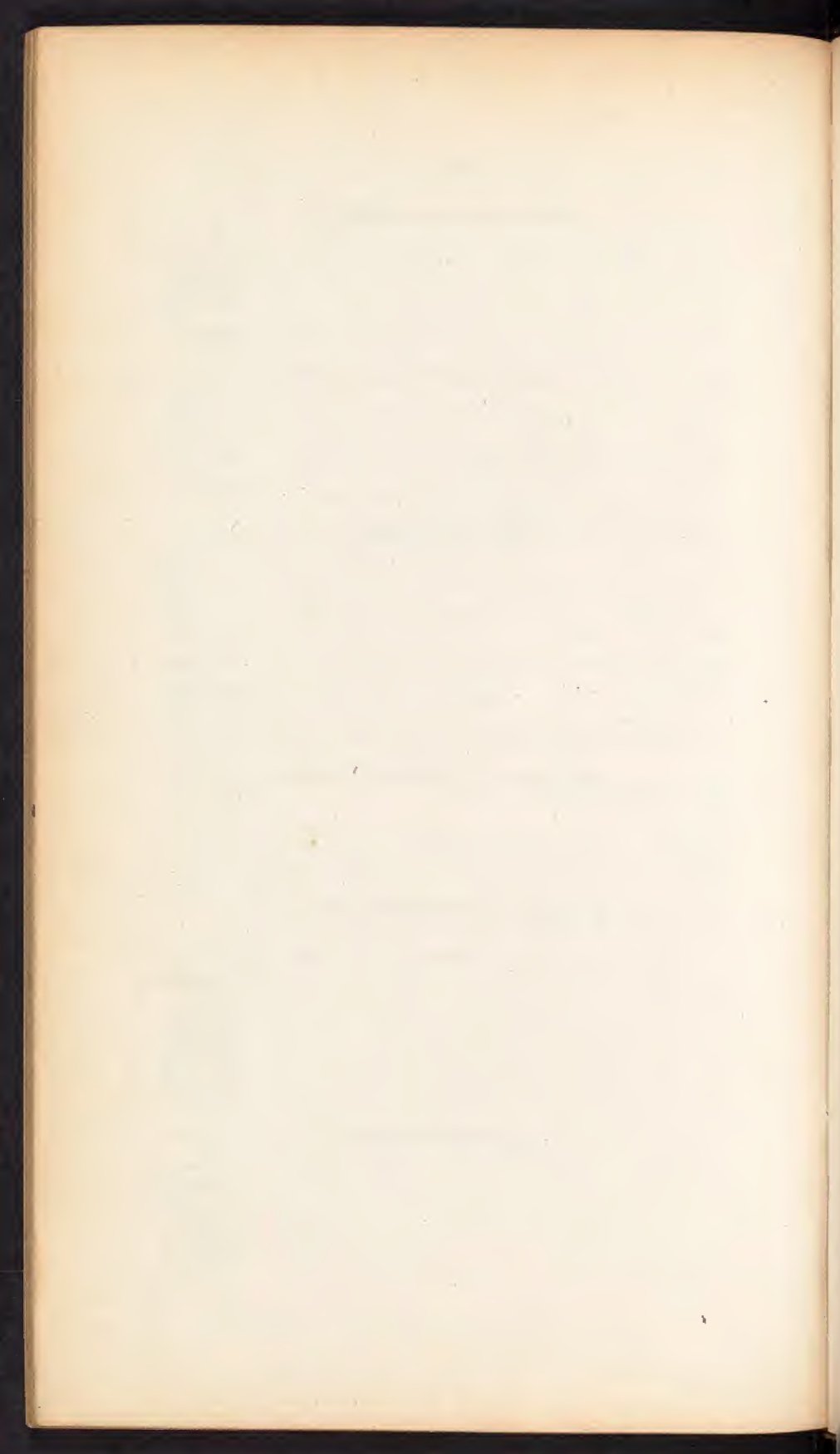
*Varieties.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

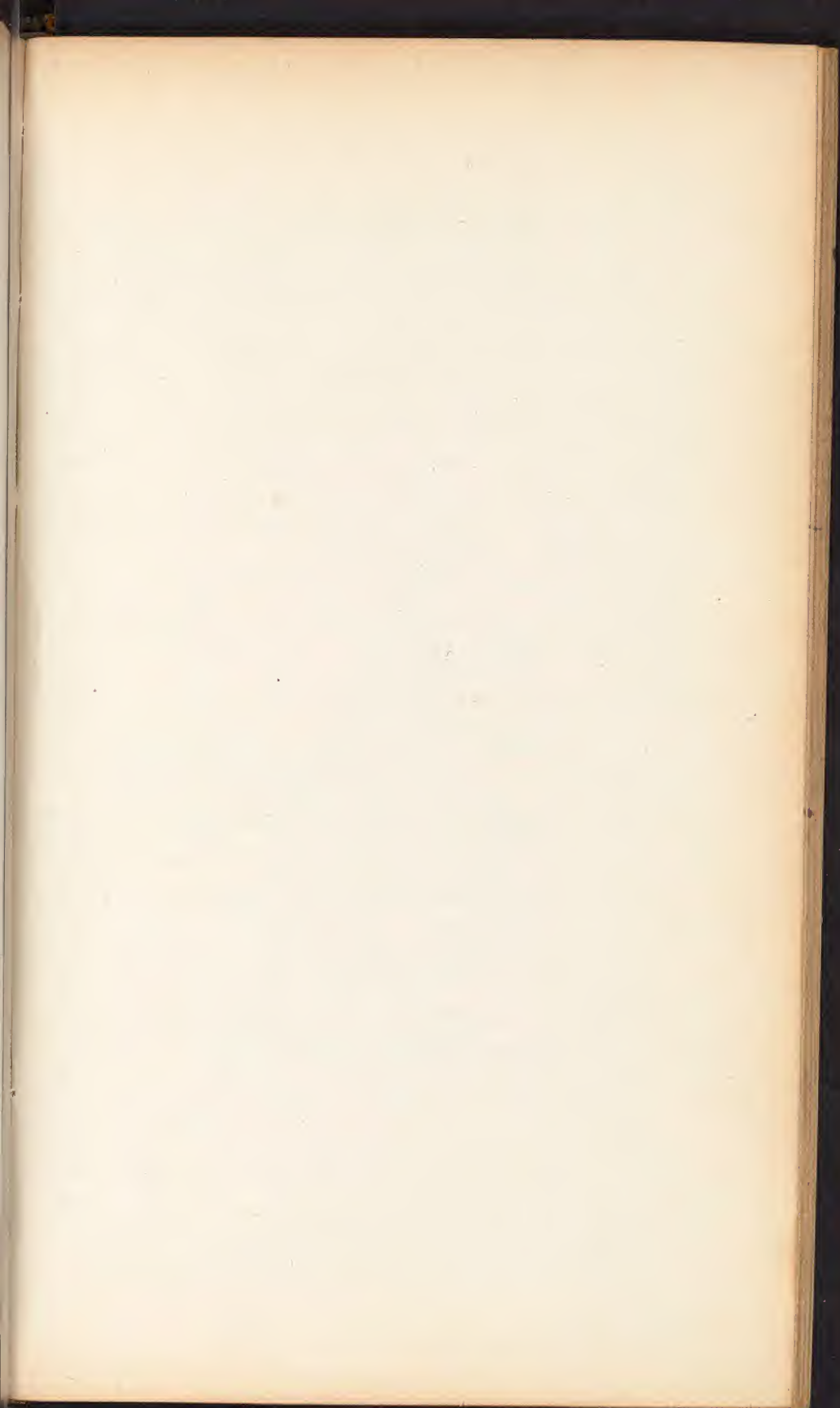
ACUTE INFLAMMATION.

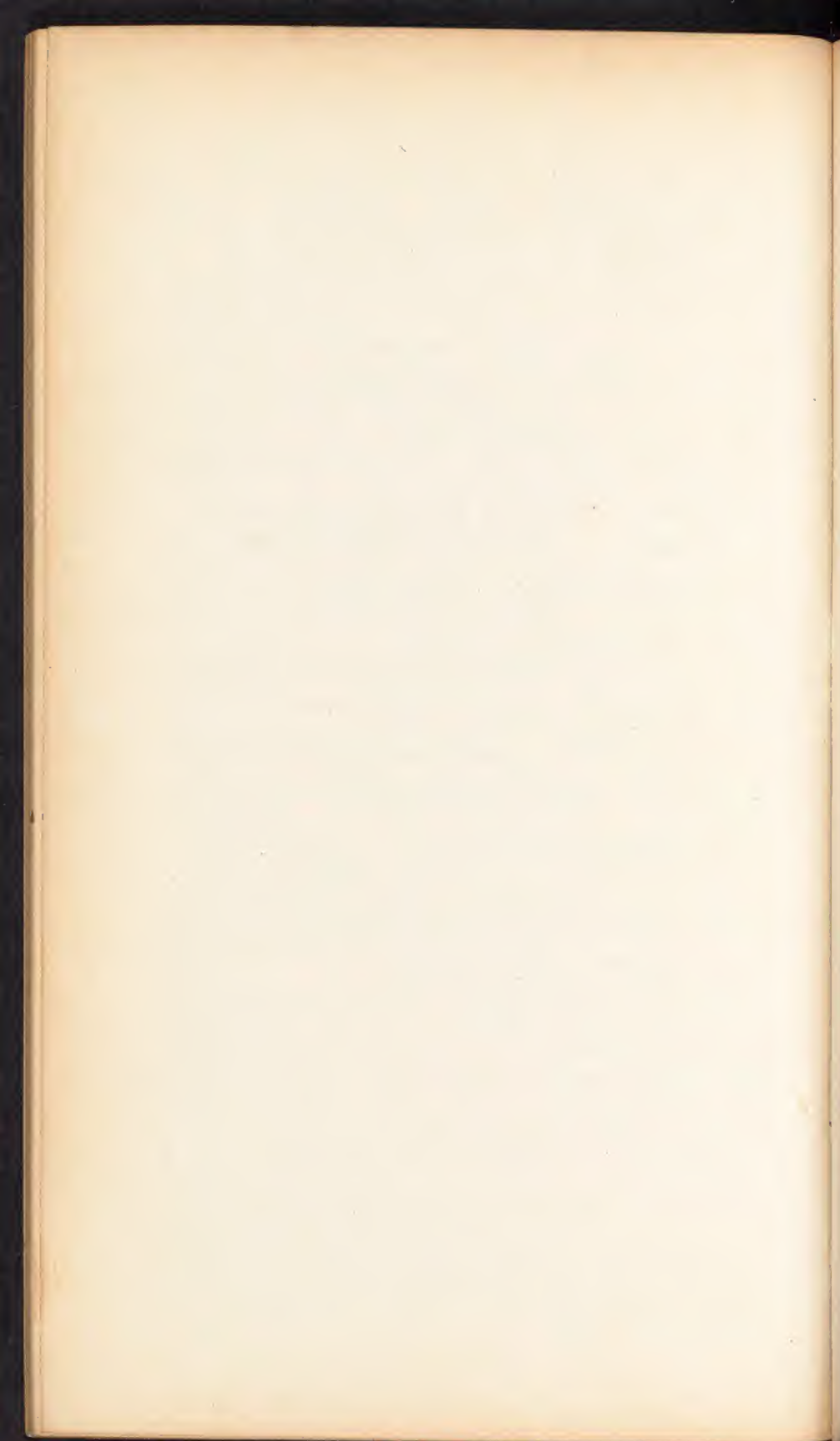
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*Diagnosis.*  
*Prognosis.*  
*Treatment.*

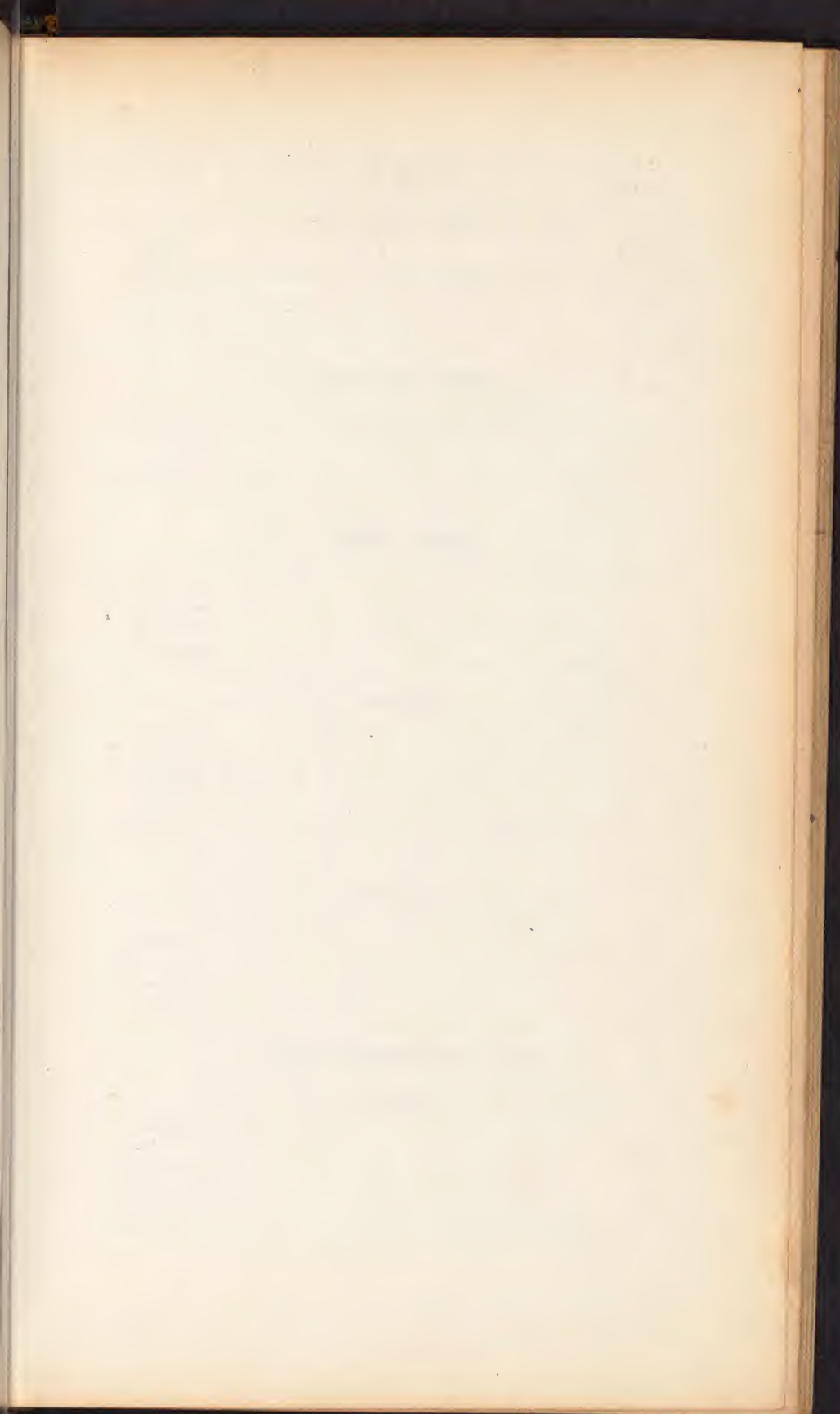




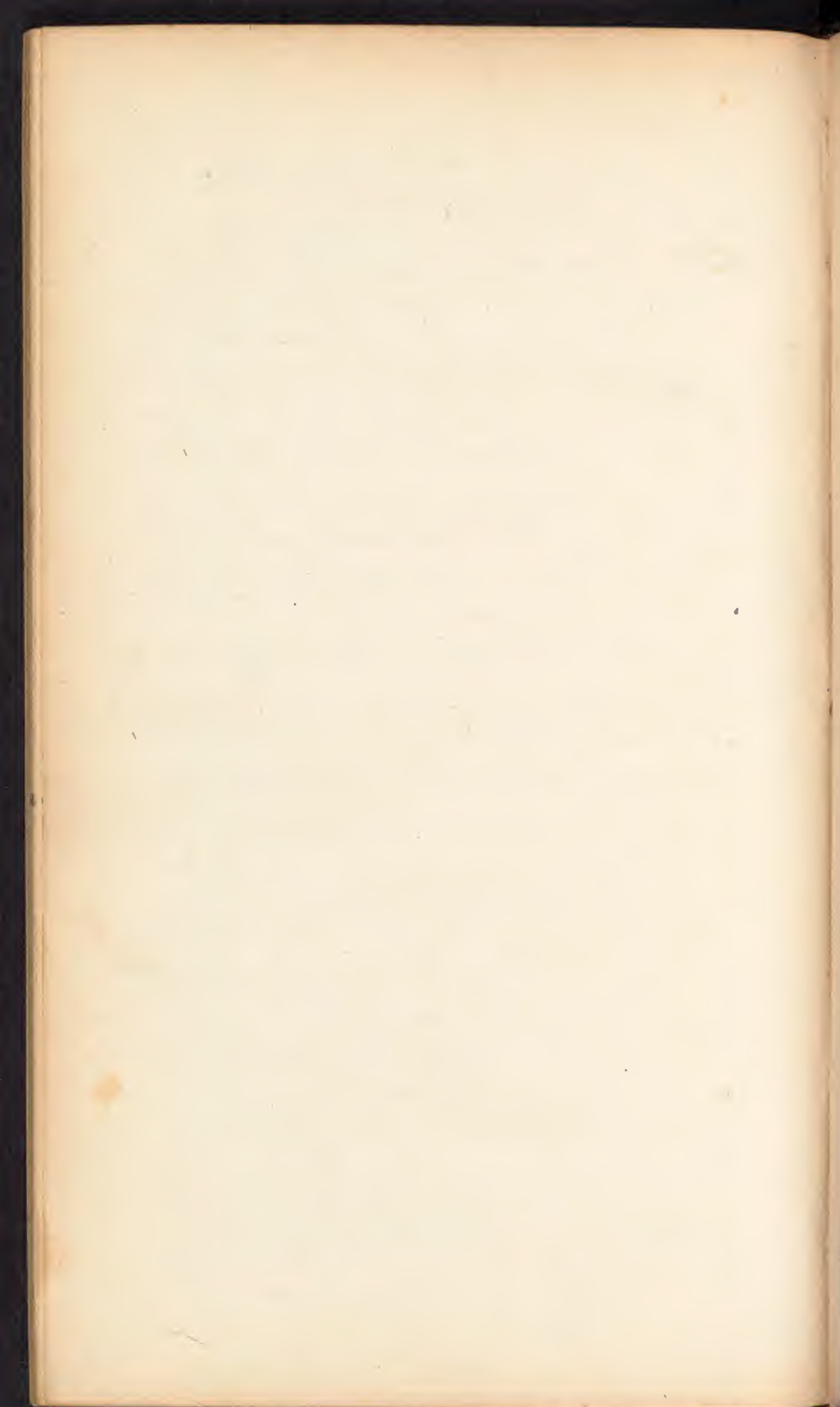












ABSCESS IN THE PERINEUM.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

URINARY INFILTRATION.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

DEPOSITES OF LYMPH.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

FISTULA.

*Definition.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

NEURALGIA.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

VI. AFFECTIONS OF THE URETHRA.

WOUNDS.

*Varieties.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

HÆMORRHAGE FROM THE URETHRA.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

RUPTURE OR LACERATION.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

FALSE PASSAGE.

*Definition.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

ACUTE INFLAMMATION.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

CHRONIC INFLAMMATION.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

GLEET.

*Definition.*

*Causes.*—An improperly treated gonorrhœa—disease of Cowper's gland, or the mucous lacunæ of the urethra, disease of the prostate; strictures; sometimes constitutional causes, as scrofula, gout, rheumatism, &c.

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*—Astringent and alterative injections; the argente nit; in substance; bougies, medicated or simple; constitutional remedies, &c.

## GONORRHOEA.

*Definition.**Causes.**Symptoms.*—1. Those affecting the part itself. 2. Those attacking other parts from sympathy.*Period of incubation.**Diagnosis.**Prognosis.**Extent of the inflammation.**Products of the disease.**Connection between gonorrhœa and syphilis.**Treatment.*

## STRICTURE.

*Definition.**Varieties.*—1. Permanent. 2. Spasmodic. 3. Mixed.*Most common variety.*—The permanent.*Seat of spasmodic stricture.**Causes.*—Vary with the form of stricture.*Progress.*—Usually increases very slowly.*Number.*—Varies.*Extent.*—Varies.*Location.*—1. At the orifice. 2. Near the middle. 3. Near the bulb. Surgeons do not agree, however, on this point.*Symptoms.*—1. Local. 2. Constitutional.*Diagnosis.*—May be confounded with gleet; diseased prostate; stone in the bladder; hernia humoralis; neuralgia of the testis; neuralgia of the perineum; ague, &c.*Prognosis.*—Depends on the variety of stricture, the age and health of the patient, &c.*Termination.*—May occasionally terminate in ulceration and thus a cure be accomplished.*Effects on adjacent organs.**Treatment.*—Mode of examining the urethra.*Different methods of treatment.**a.* Dilatation. By bougies, Arnott's dilators, &c.*b.* Caustic.*Local remedies.*—*c.* Incision from within.*d.* Incision from without.*e.* Forcing the stricture.*f.* Excision.*g.* Catheterism,*h.* Cauterizing with argent nit; to allay irritability.*i.* Absorbent operation.*Constitutional.*—*a.* Blood-letting.*Remedies.*—*b.* Hot bath.*c.* Opium.*d.* Inhalations of ether.

When the stricture is impervious and the patient cannot pass urine, the bladder must be tapped, but this should never be done until all our other remedies have been employed.



FISTULA.

*Definition.*

*Varieties.*—1. In urethra anterior to perineum. 2 In urethra, and discharging through the perineum.

*Causes.*—Inflammation and abscess, wounds, &c.

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*—Remove the cause, if possible, then use according to circumstances the catheter, caustics, suture, incision, blisters, plastic operation.

CONTRACTION OF THE ORIFICE OF THE URETHRA.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

ORIFICE TERMINATING TOO FAR BACK.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

TUMORS OF THE URETHRA.

*Varieties.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

PAINFUL TUMOR OF THE FEMALE URETHRA.

*Varieties.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

HARDENING OF THE FEMALE URETHRA.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

FOREIGN BODIES IN THE URETHRA.

*Varieties.*

*Mode of introduction.*

*Symptoms to which they give rise.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

CALCULI IN THE URETHRA.

*Mode of introduction.*

*Symptoms to which they give rise.*

*Manner of removing them.*

---

XV. DISEASES OF THE PENIS.

EPISPADIAS.

*Definition.*

*Varieties.*

*Causes.*—Mostly congenital—sometimes accidental.

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

HYPOSPADIAS.

*Definition.*

*Varieties.*

*Causes.*—Mostly congenital.

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

PECULIAR MALFORMATION OF METTEUR.

*Definition.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

BENT OR DISTORTED PENIS.

*Varieties.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

PRIAPISM.

*Definition.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

INFLAMMATION OF THE PENIS.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

ABSCESS.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

URINARY ABSCESS.

*Definition.*  
*Causes.*

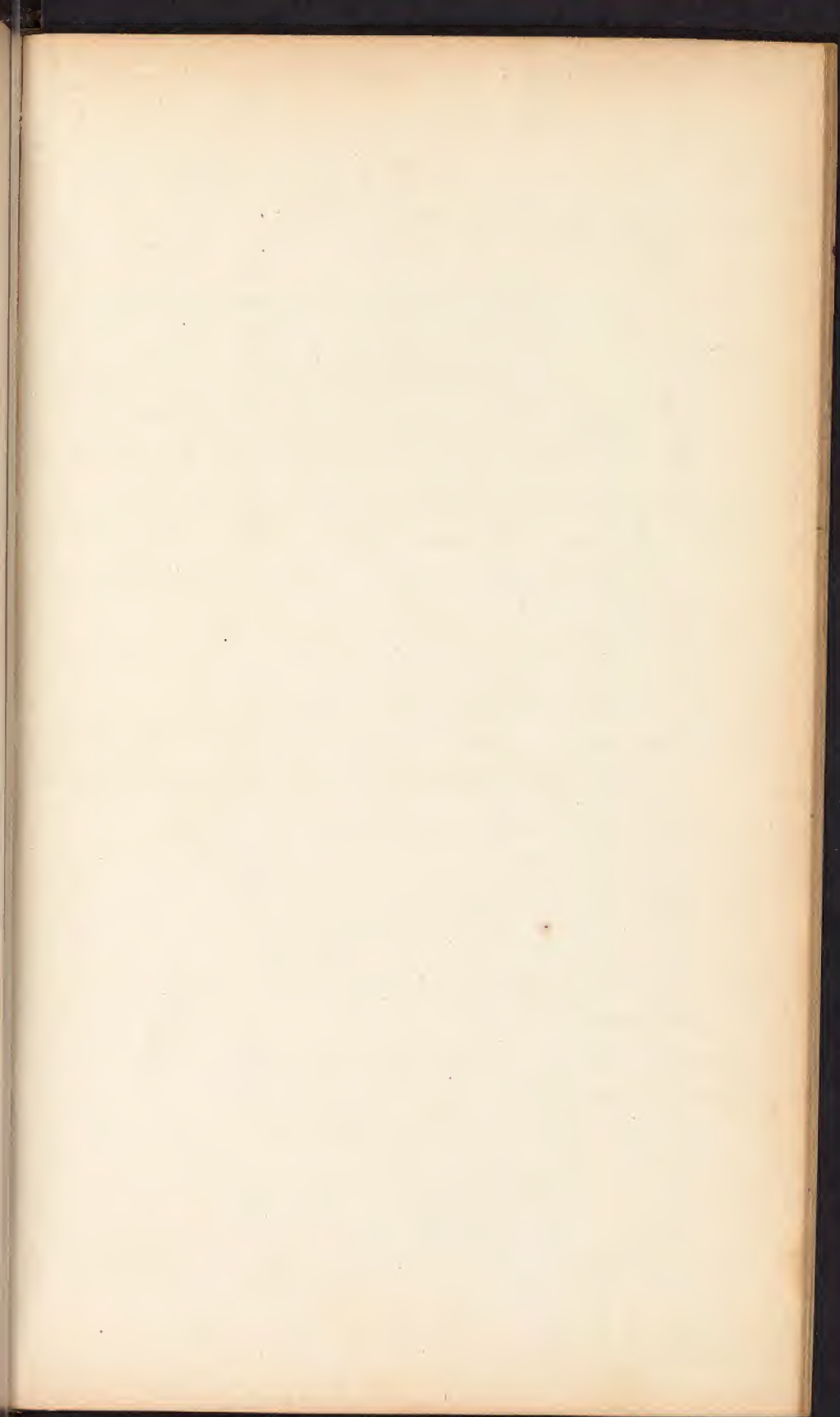
*Varieties.*—The urine may be collected in a single pouch or cavity, bounded by adhesive inflammation; it may be widely diffused in the cellular tissue; or it may be mixed with pus, forming a urinary abscess proper.

*Causes.*—Perforation of the urethra from wounds, ulceration, &c.

*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

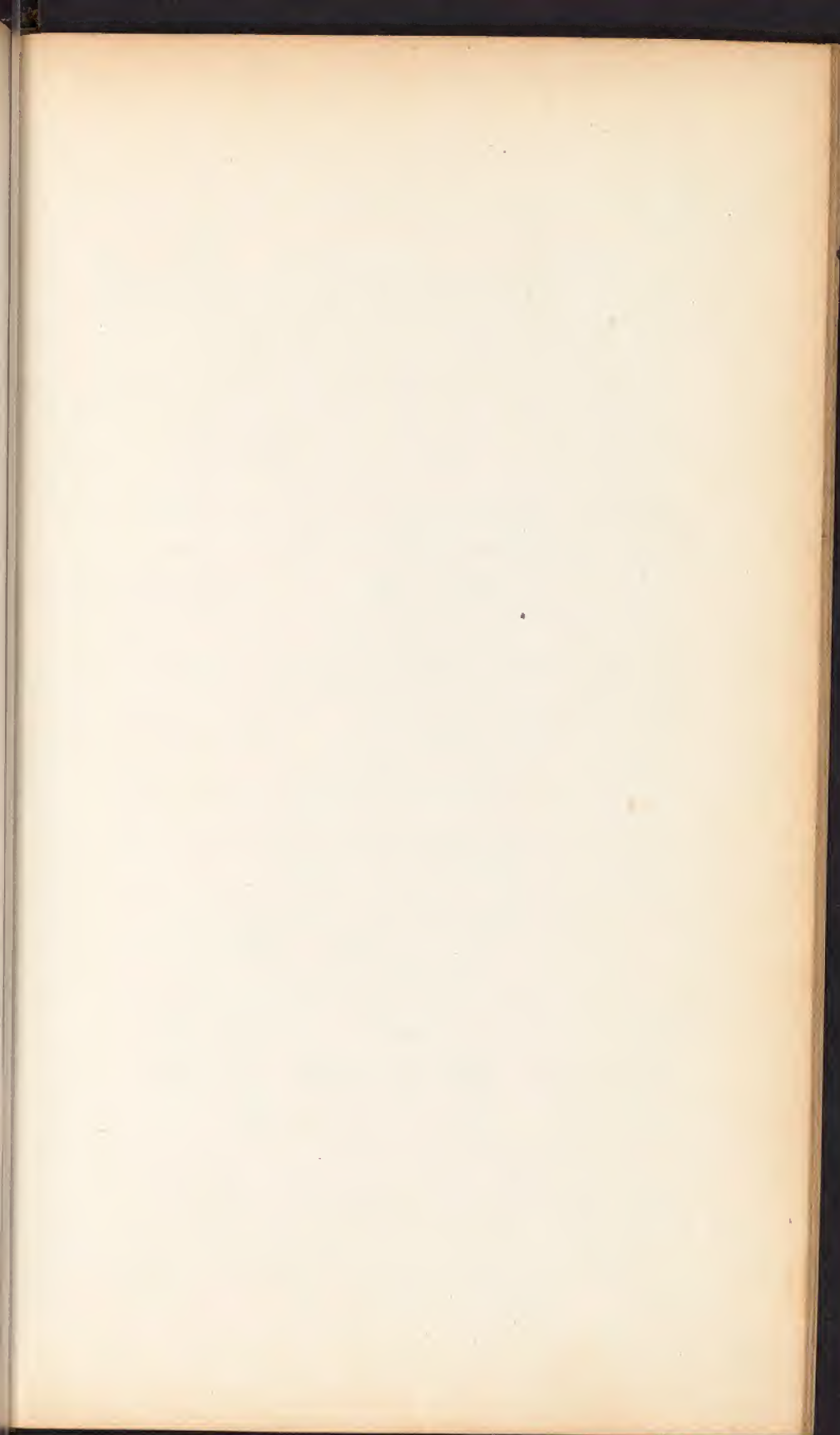
WOUNDS OF THE PENIS.

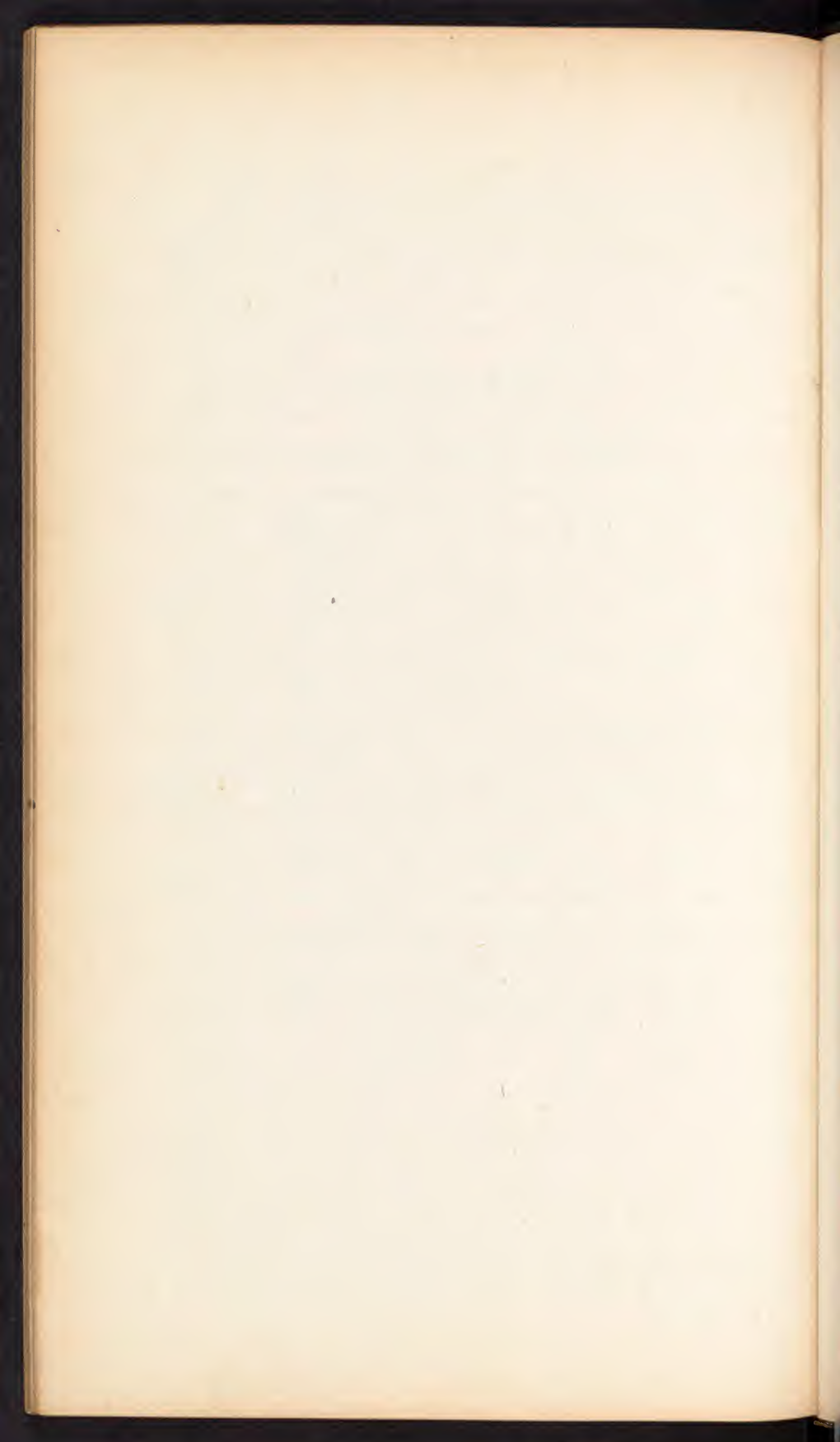
*Varieties.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

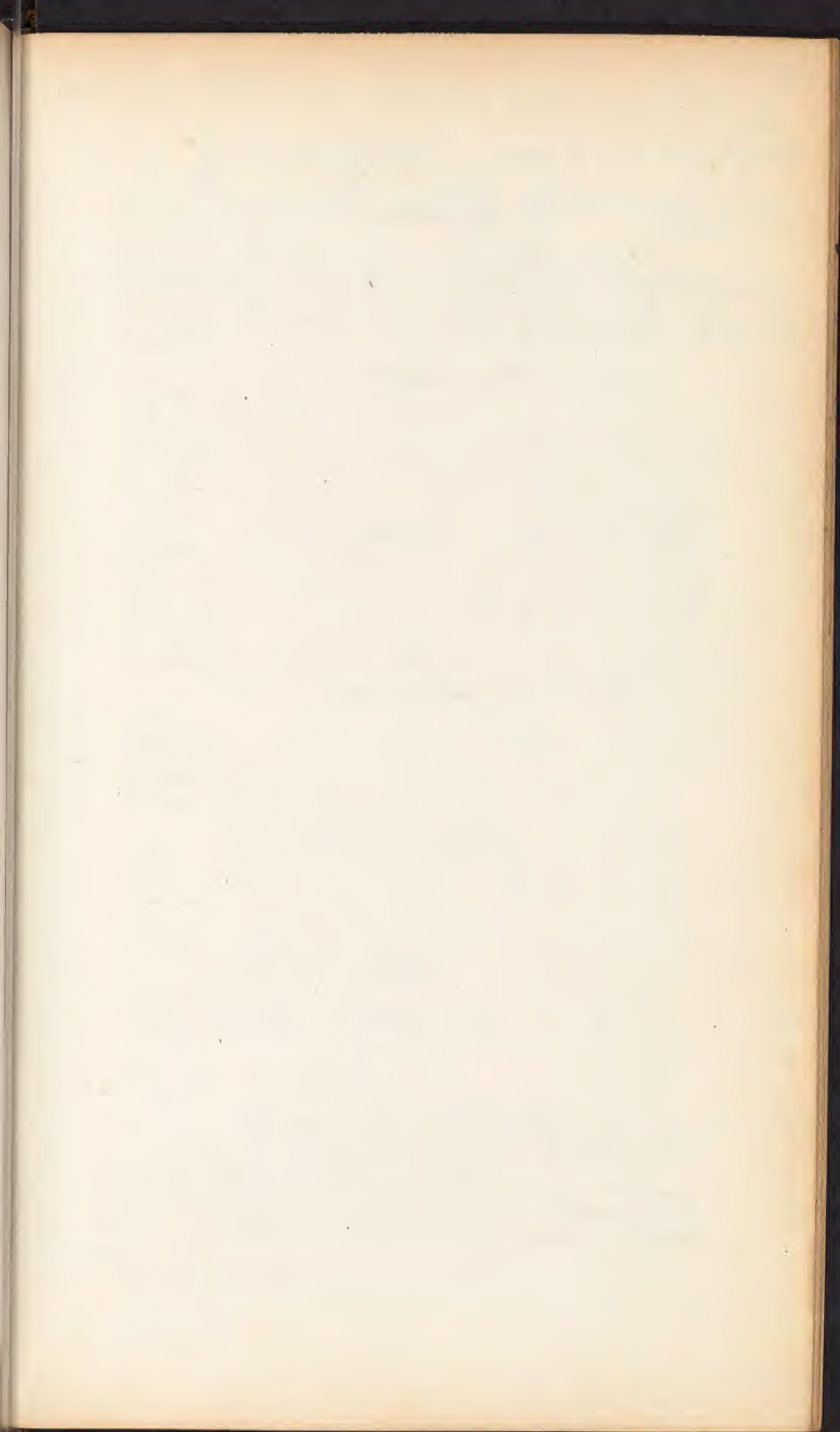














Chlorine - Bleaching salt  $\text{NaOCl}$   
The compounds of Cl with H which form  
muriatic acid use  $\text{NaCl}$  with  $\text{Hg}$   $\text{HCl}$   
 $\text{NaOCl}$   $\text{HCl}$   $\text{SO}_3$  =  $\text{NaOCl}$

Cannot be separated from a certain quantity  
of water which will adhere to it

OEDEMA.

*Definition.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

TUMORS.

*Varieties.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

WARTS.

*Definition.*  
*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

SHORT FRENUM.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

CONTRACTION OF PREPUCE.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

PHYMOSIS.

*Definition.*  
*Causes.*—1. Congenital. 2. Acquired.  
*Degrees.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*

*Treatment.*—Varies with the cause. In congenital cases an operation is usually required, when produced by accidental causes, we should never operate without a due regard to the condition of the parts.

*Operations.*—1. Slitting up the prepuce. 2. Circumcision. 3. Division of external portion, the mucous lining being left entire. 4. Lisfranc's operation. Removing a semicircular slice. 5. Velpeau's operation. 6. Removing a triangular piece.

*Operation to be preferred.*

PARAPHIMOSIS.

*Definition.*

*Causes.*

*Degrees.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*—1. Compression. 2. Cold. 3. Operation.

BALANITIS.

*Definition.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

POSTHITIS.

*Definition.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

SIMPLE ULCER.

*Varieties.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

ABRASIONS.

*Definition.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

HERPES PREPUTIALIS.

*Definition.*

*Causes.*

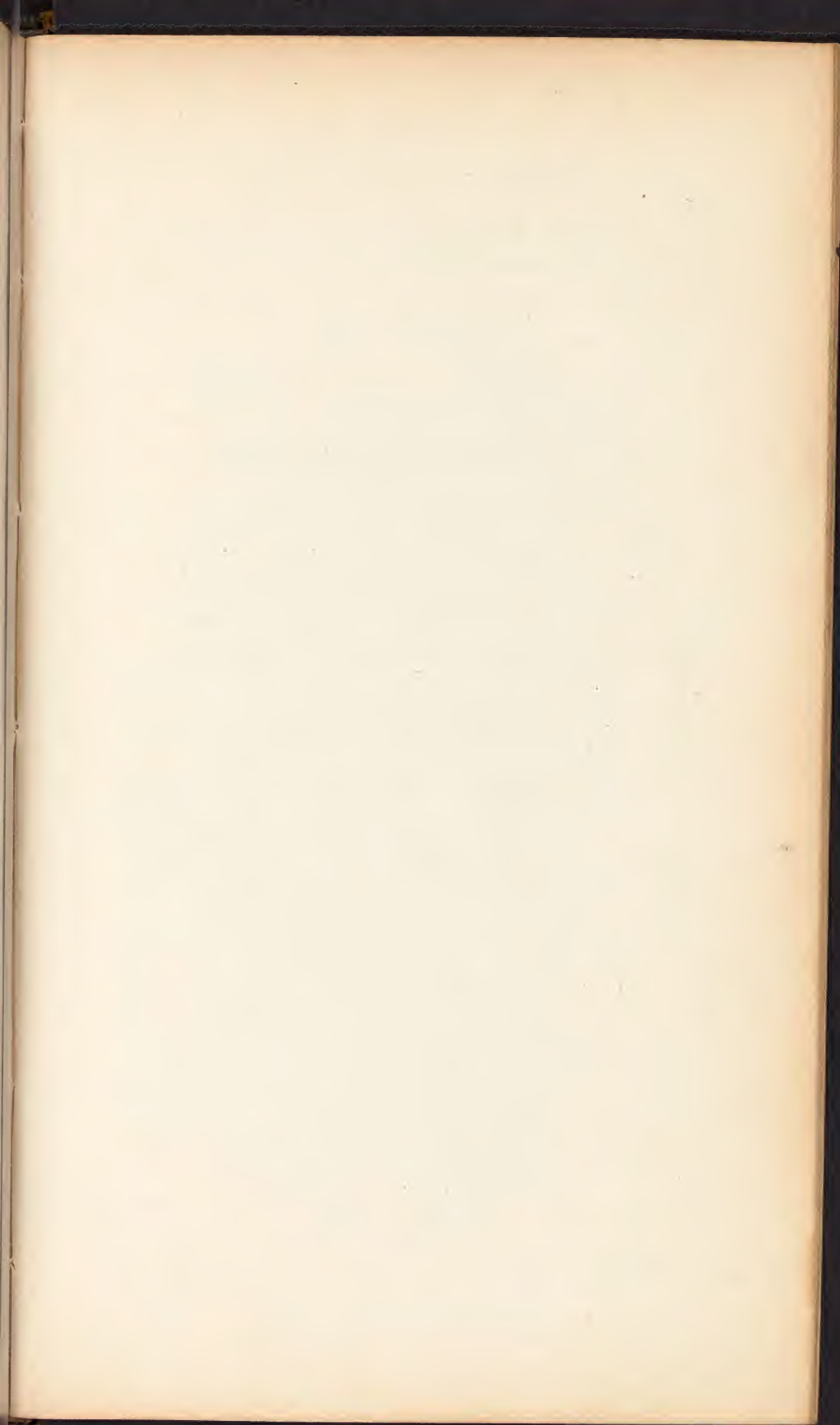
*Age most liable.*

*Symptoms.*

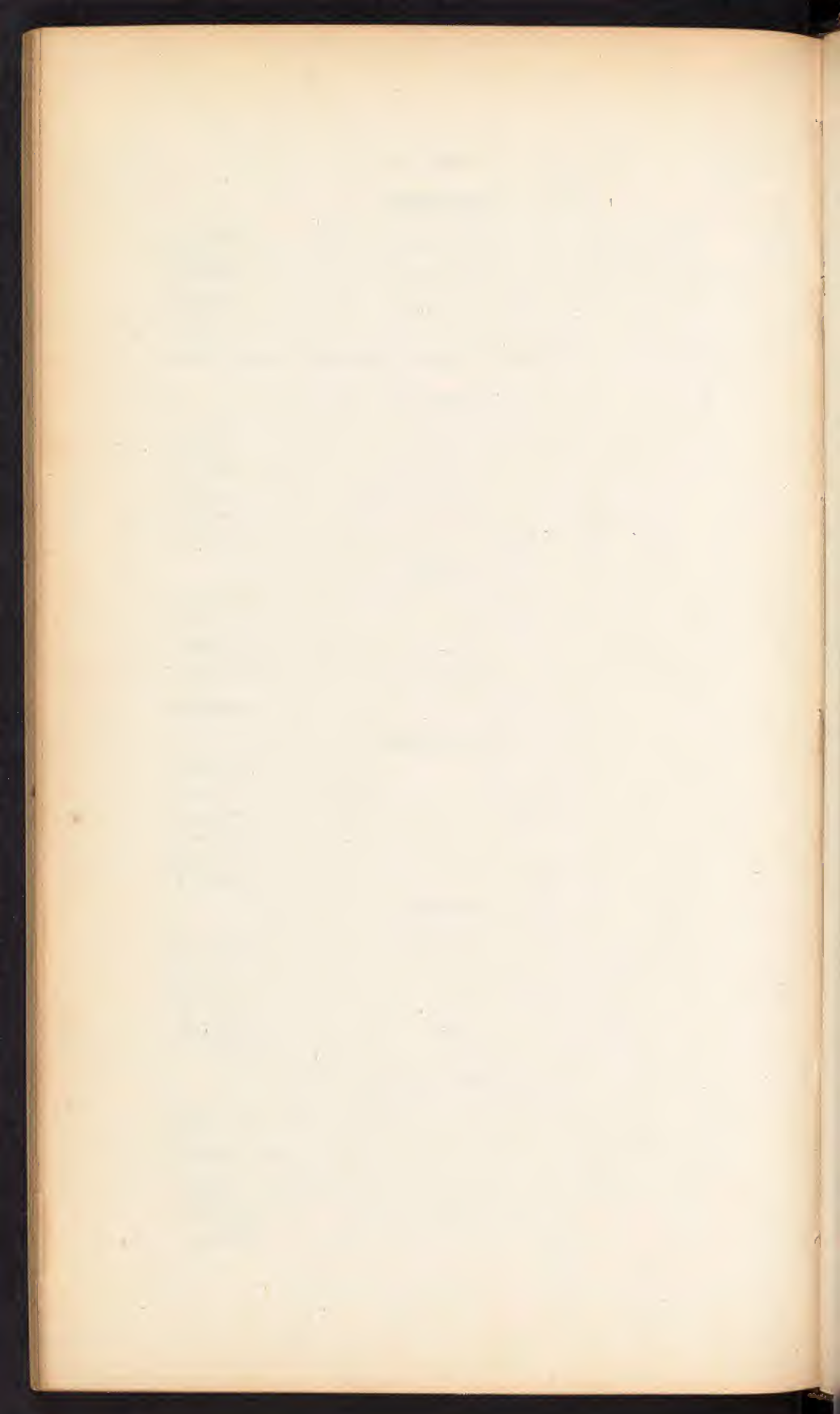
*Diagnosis.*

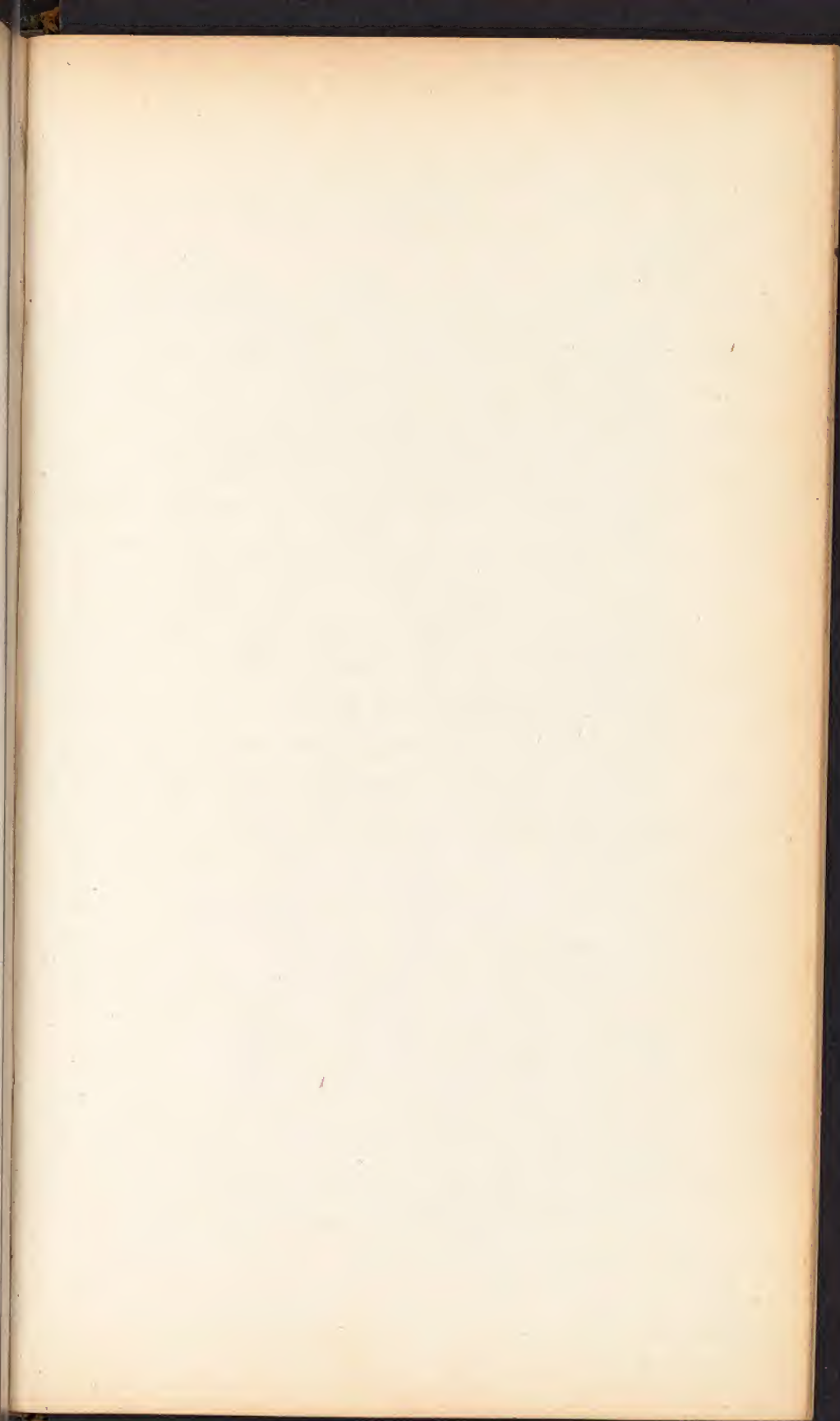
*Prognosis.*

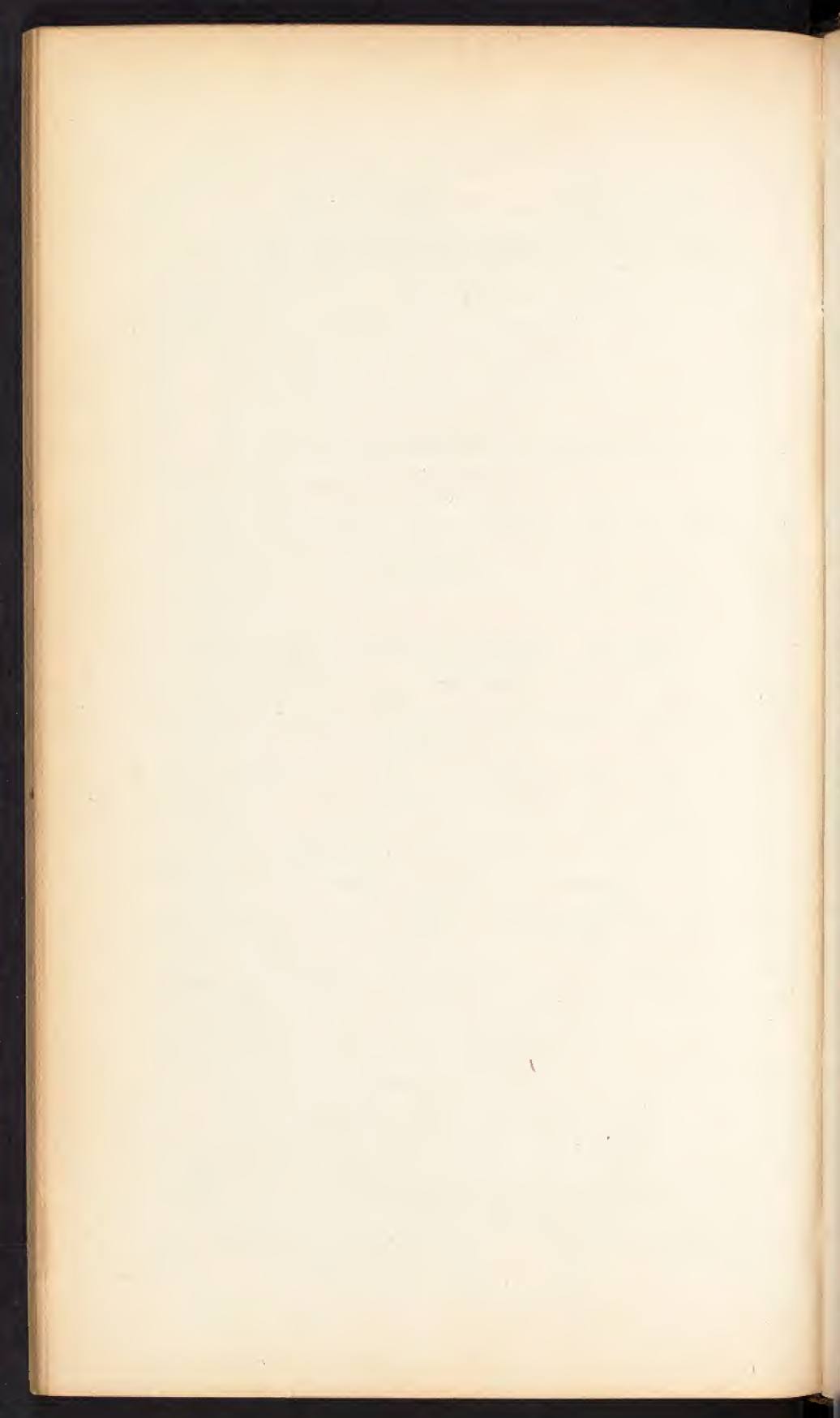
*Treatment.*

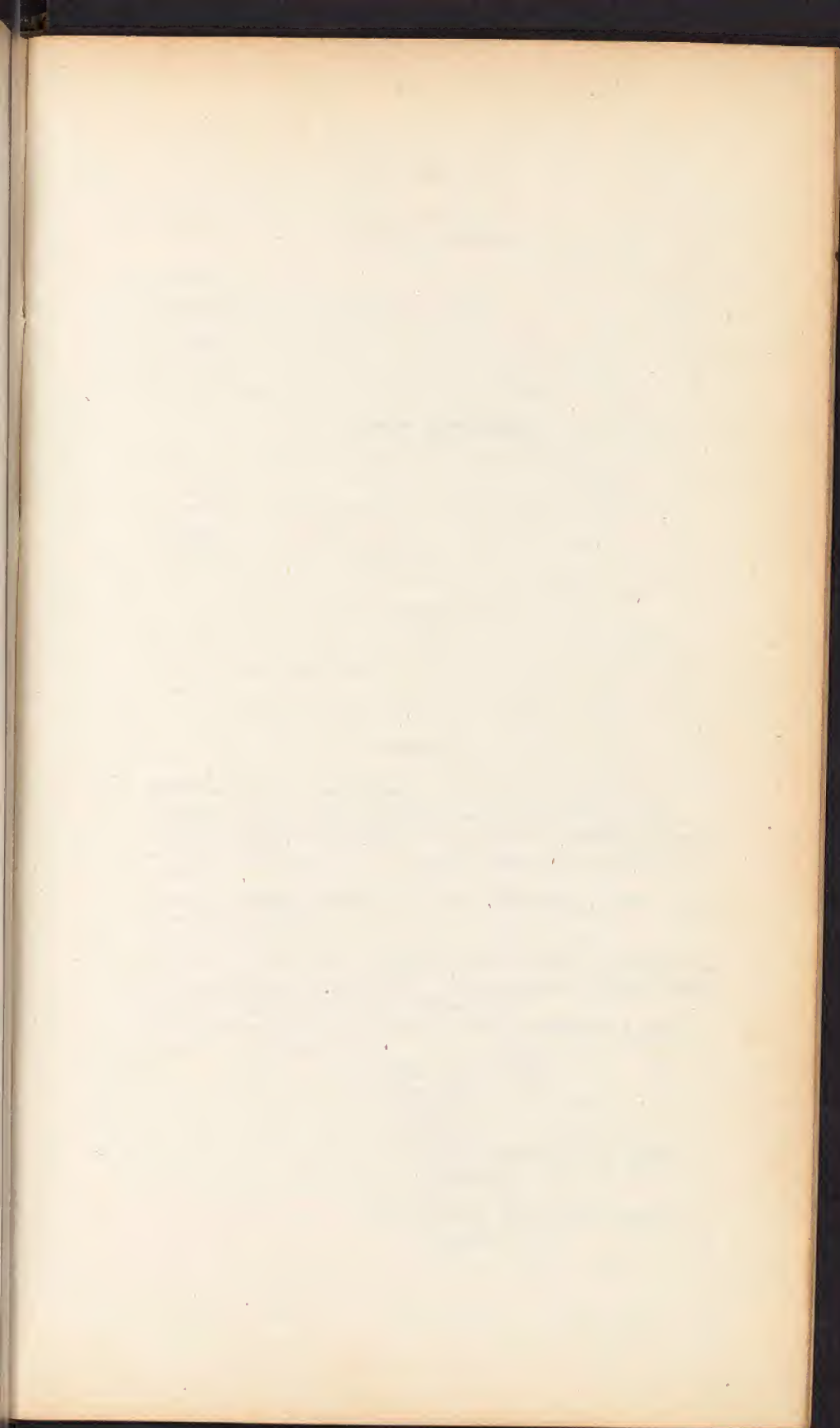




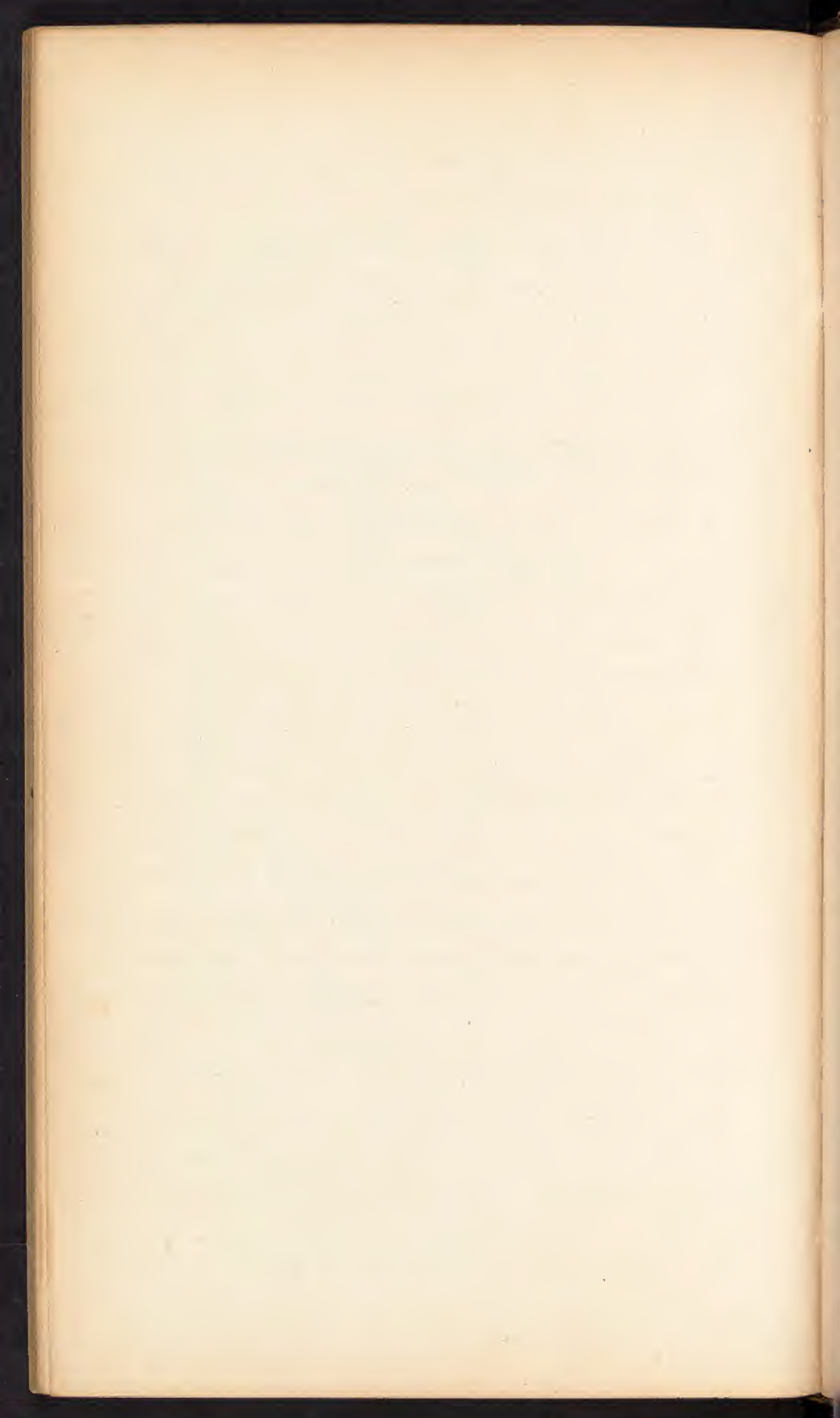












CEDEMA OF PREPUCE.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

ADHESION OF PREPUCE.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

LOSS OF PREPUCE.

*Causes.*

*Effects to which it gives rise.*

*Treatment.*

SYPHILIS.

*Definition.*—*συ φιλίω* (mutual love.)

*Synonymes.*—Lues veneria, venereal disease, morbus gallicus, pox, &c.

*History.*—1. Was syphilis known to the ancients? 2. Was it imported from America into Europe? 3. If not imported thus, when and where did it originate?

*Causes.*—Supposed by some to occur often *spontaneously*. Impure sexual intercourse. (See Skey.)

*Period of incubation.*

*Question of a special virus.*—Broussais and his school, and others also, denied the existence of a specific virus. The experiments of Ricord, Parker, Carmichael, Mayo, Wallace, &c. prove the contrary.

*Does gonorrhœal matter ever produce the primary symptoms of syphilis?*

*Classification of Symptoms.*—

1. Primitive or direct.
2. Successive.
3. Secondary.
4. Tertiary.
5. Diseases unconnected with syphilis —  
(Ricord.) or
  1. Primary or local.
  2. Consecutive, general, or constitutional.  
(Hunter.)

PRIMARY SYPHILIS.

CHANCRE.

*Definition.*

*Mode of development.*—1. Pustule. 2. Ulceration or abrasion. 3. Abscess.

*Physical character.*—Varies with the location, number, degree of inflammation, duration, &c.

*Character of the pus.*—Varies, and is modified by the stage of the chancre.

*Stages of chancre.*—1. Ulceration, during which the matter secreted will produce the disease if we inoculate with it; it may last several years, but usually only one or two months. (Ricord.)

2. Granulation and Cicatrization. The matter secreted now ceases to possess inoculable properties.

*Division.*—1. External.

2. Internal, larvated or concealed.

1. Follicular.

2. Indurated.

3 Phagedenic.

4. Furunculus.

*Seat of chancre in the different sexes.*

*Causes.*—Sexual intercourse, touching a chancre; during labor the child may be inoculated.

*Diagnosis.*—Often difficult.

*Prognosis.*—Varies with the form of chancre. Chancre produced by artificial inoculation; characteristics of—(Ricord.)

*Prophylaxis.*

*Treatment of chancre.*—1. Local. 2. Constitutional.

*Cases in which mercury should be employed.*

*Cases in which it should not be administered.*

*Extent to which it should be carried.*

CONSECUTIVE SYPHILIS.

I. BUBO.

*Definition.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

II. SYPHILITIC CUTANEOUS AFFECTIONS.

*Varieties.*

*Period at which they appear.*—Sometimes along with the primary symptoms, but generally after these are cured.

*Parts of the body most liable to be attacked.*

*Symptoms.*—1. Local. 2. Constitutional.

*Diagnosis.*

*Prognosis.*

*Treatment.*



Bubo. If soft fluctuation - don't  
blister Iodine poult - put on a  
Flaxseed poultice and when the  
fluctuation is fully established open  
and treat as ulcer - If gets  
mildest touch Argent Nitras - If  
won't heal give give Mercury  
If find pubic ulcer closed skin and  
becomes protracted stop - and  
use Iodine potassium - give  
good diet - Sometimes phaged  
both be established - and laying  
open large ulcers, after the Carbolic  
fluid - good diet - and Iod Potass  
put on dressing the suit case

Have sometimes scars forming  
and discharging skin - lay open and  
apply Iodine Argent Nitras and  
give Mercury or Iod Potass accord  
to condition of patient -

Head tumor - smooth when large  
and by Iod - lay - Mercurial  
make softer - Iodine Bubo -  
might treat by Iodine - Sup  
by Enoll and sup - Phage -  
Wetted Collodion - by which  
lay open and touch outside  
silver The crust of Pott's disease must  
be removed



Condensation of time  
often found in children. Effect  
of treatment with Syphilis in  
young children - Give the  
Mercuric to mother and  
less on bath. Amount should  
more - but - give solution  
mercurial diff in Soft Soap  
and apply to skin constantly  
shaving of scales.

In Children. An Adult have  
diff case. Hair come back  
won't come back - Skave off  
after Syphilis -

Colaneous Eruption a pustule  
in diffuse but dry up some fast.

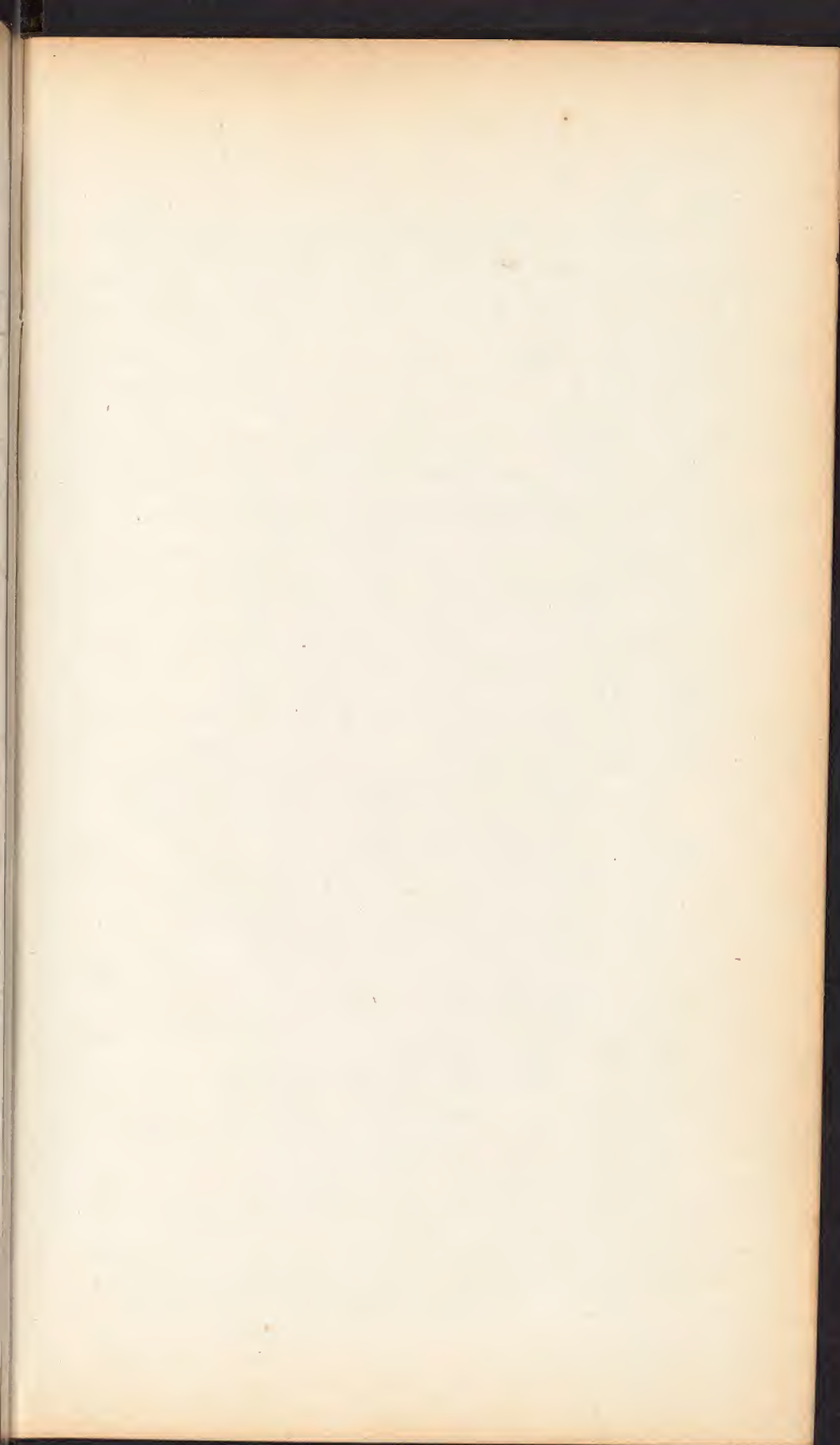
Rosacea. Red face but so mild  
thatly can't be into rosacea. Dis-  
appear to cure - this may be common  
into Rubea. Scal forming in large.

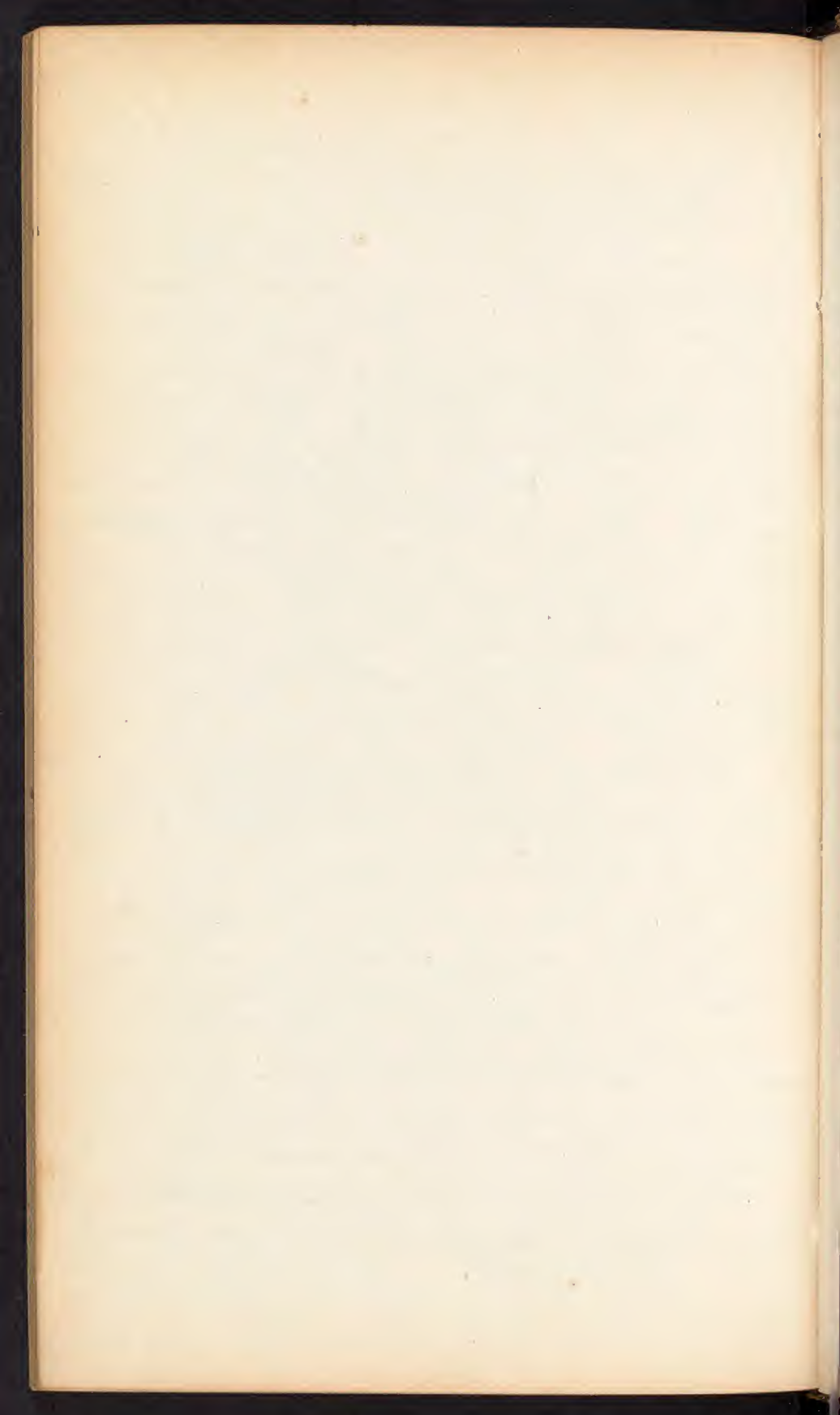
Sometimes have on face reddish  
face and diff. even the  
pustules converted into scale.

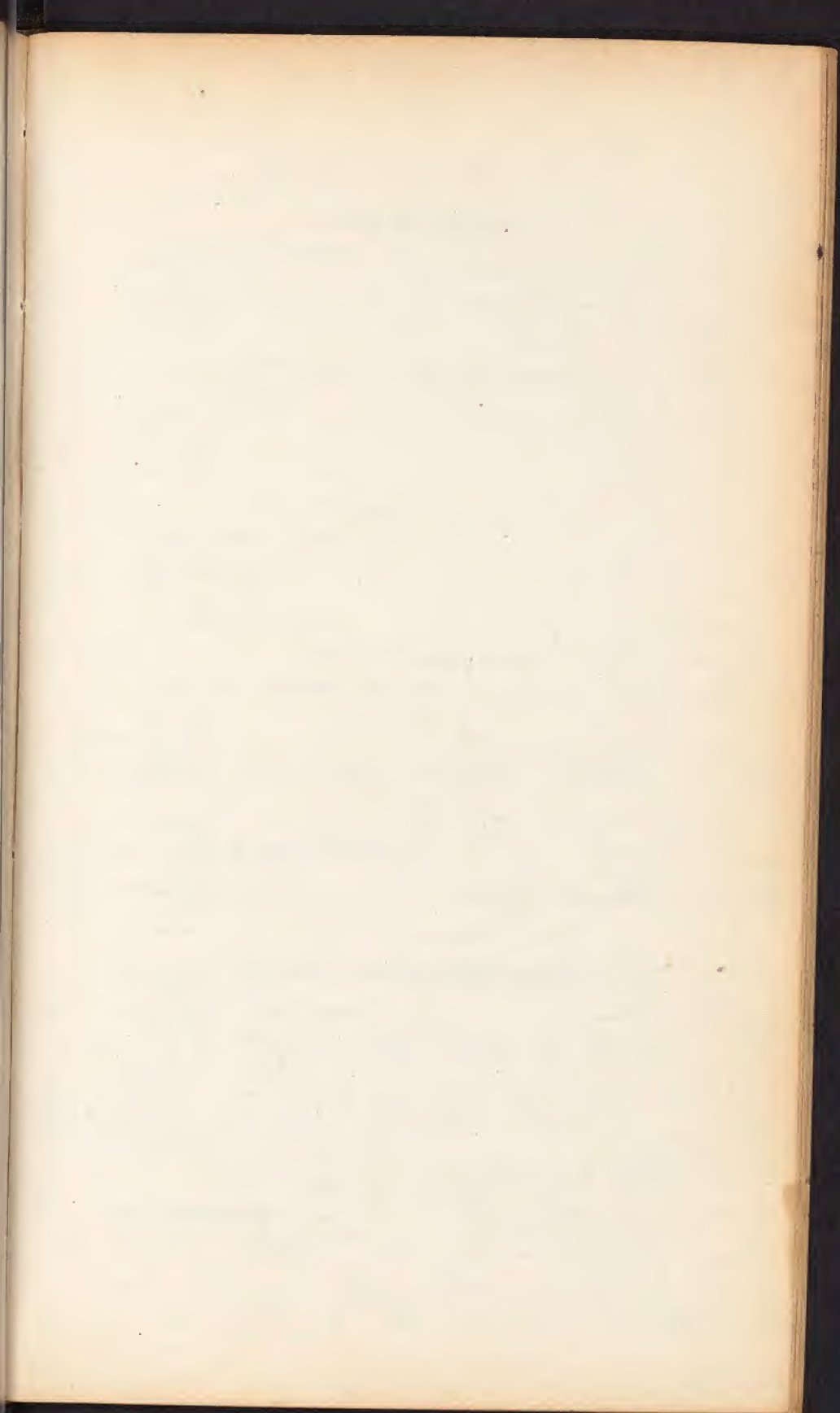
See as large. Treat may have  
fine and fine Syphilis.

Ectoma - Scler. Swell

Tubercular. Acne. Have a  
lump under skin open and  
become pitted. Change for  
scal and partly healed spots  
between the most diff form.









\* In Sy Rheu - some swelling in shape  
of knee on some of bones - head or leg -  
Pain ten times greater than in ordinary  
Specific treat is here necessary although  
course - Potogale Syrm Dover Powder  
warm bath - and continue plain  
six weeks put him on sweating stage

Now Inf - of perost - extend ult to bone  
and result in a deposit of  
ossy - matter - great pain - always local  
1st step swelling hard - 2 - pop - 3 open  
and put - 1st treat Blister Potass 2d  
2nd Blister - and 3rd Oint. Sometimes  
swelling - owing to Serum and Plasma  
and perostium down to bone  
supp. cons - take along bone and  
head simply ulcer

III. SYPHILITIC SORE THROAT.

*Period at which it appears.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

IV. GLANDULAR DISEASE FROM SYPHILIS.

*Glands most liable.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

V. IRITIS FROM SYPHILIS.

*Period at which it makes its appearance.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

VI. SYPHILITIC RHEUMATISM.

*Period at which it makes its appearance.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

VII. NODES.

*Definition.*

*Period at which they appear.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

VIII. DISEASE OF THE BONES FROM SYPHILIS.

*Varieties.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

IX. ALOPECIA.

*Definition.*

*Treatment.*

AMPUTATION OF PENIS.

*Cases requiring the operation.*

*Mode of performing the operation.*

## CANCER OF PENIS.

*Symptoms.*—Commencing with a wart, or a tubercle on the prepuce, frenum, or glans penis, and often remaining quiet for years. Being irritated, it becomes painful and enlarges, often rapidly and to a very great extent; ulceration then takes place, accompanied by a discharge of sanious fetid matter; pain, sometimes excessive; constitutional symptoms and inflammation of glands of groin.

*Diagnosis.*—May be confounded with venereal warts or simple tumors; in its ulcerated stage, with sloughing ulcers.

*Tissue affected.*

*Prognosis.*

*Treatment.*

## XVI. DISEASES OF THE TESTIS.

Under this head are included diseases of the testis itself; diseases of the spermatic cord; and diseases of the scrotum.

## I. DISEASES OF THE TESTIS.

## SUPERNUMERARY TESTIS.

*Numerical increase.*—Generally one; three have been enumerated.

*Diagnosis.*—May be confounded with epiplocele, fatty or fibrous tumors in the scrotum, or an encysted hydrocele of the cord.

## ABSENCE OF ONE OR BOTH TESTES.

*Diagnosis.*

*Consequences.*

## IMPERFECT DESCENT OF THE TESTIS.

*Varieties.*—Where one or both testes have been detained in the abdomen near the internal ring, in the inguinal canal, or in the groin, just outside the external ring.

*Causes.*—Peritonitis before birth causing adhesions; congenital smallness of the external ring; want of power in the cremaster.

*Consequences.*—Depend on the situation of the testis; if it is retained within the abdomen, no uneasiness or inconvenience is experienced, nor are the generative functions likely to be interfered with; if, however, it should be retained within the canal, it is liable to compression by muscular action, it is exposed to injury from blows and various other causes, all of which may interfere with its development, may impede its nutrition, or excite disease.

*Diagnosis.*—May be confounded with bubonocoele, &c.

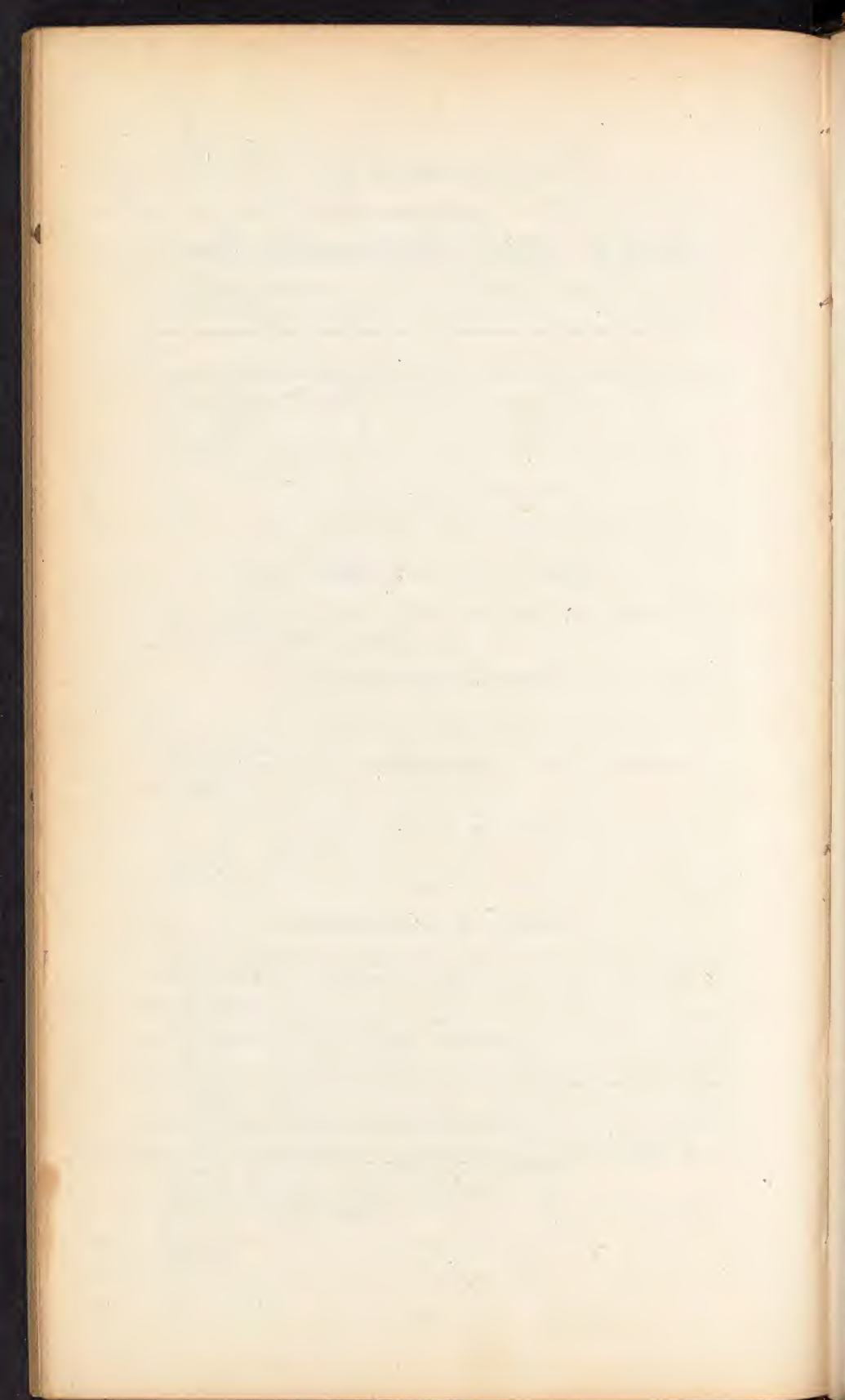
*Importance of correct diagnosis.*

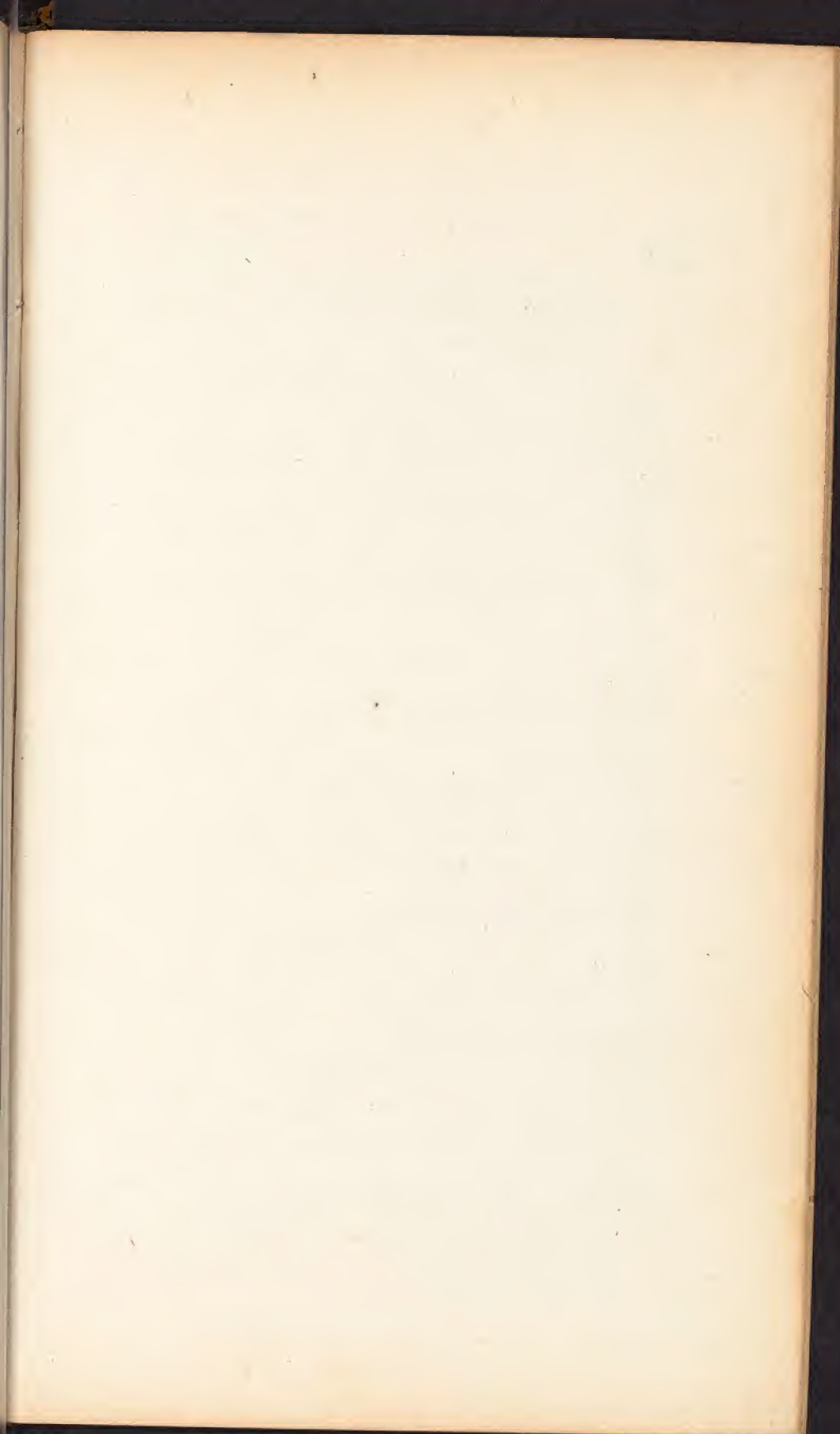
*Prognosis.*

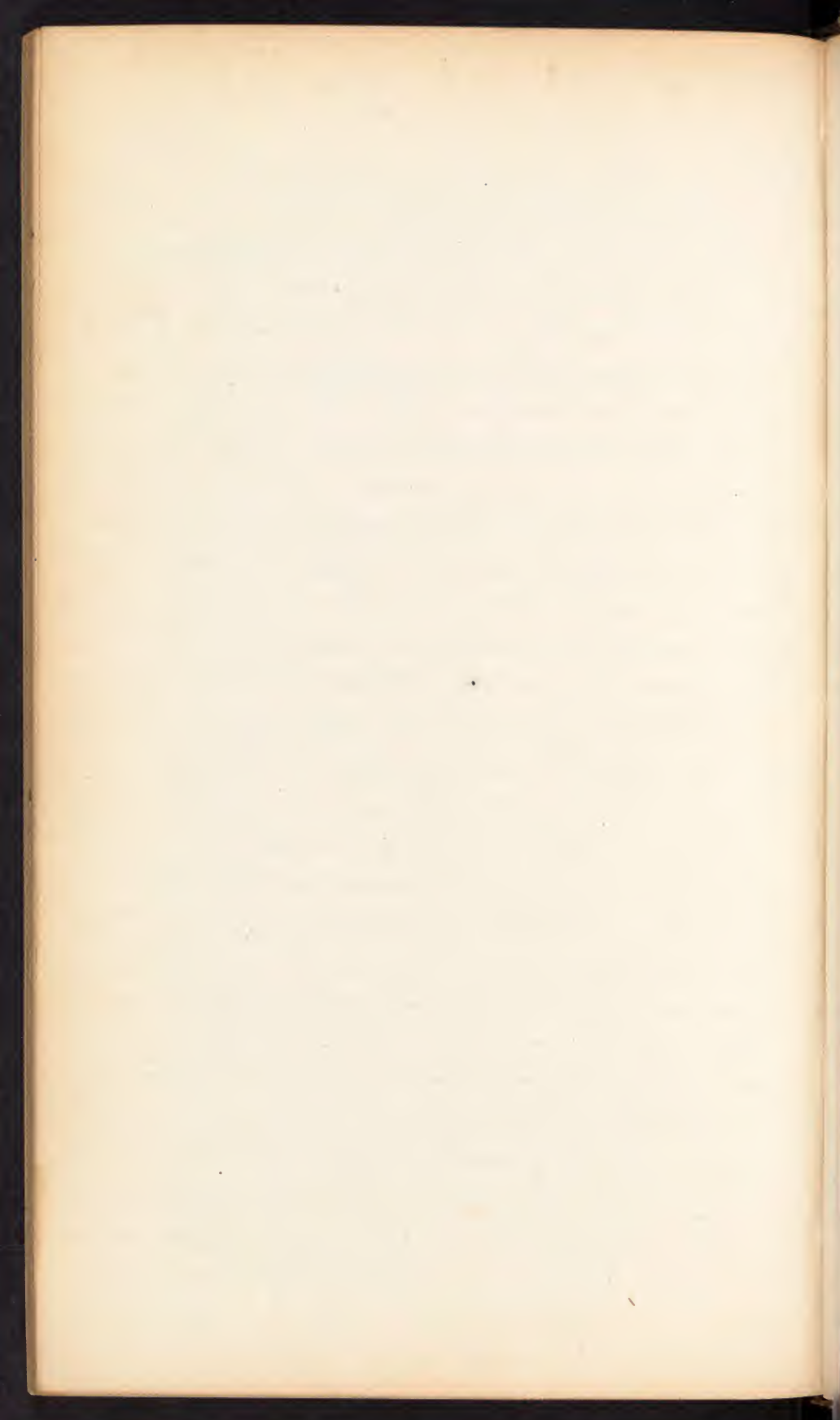
*Treatment.*

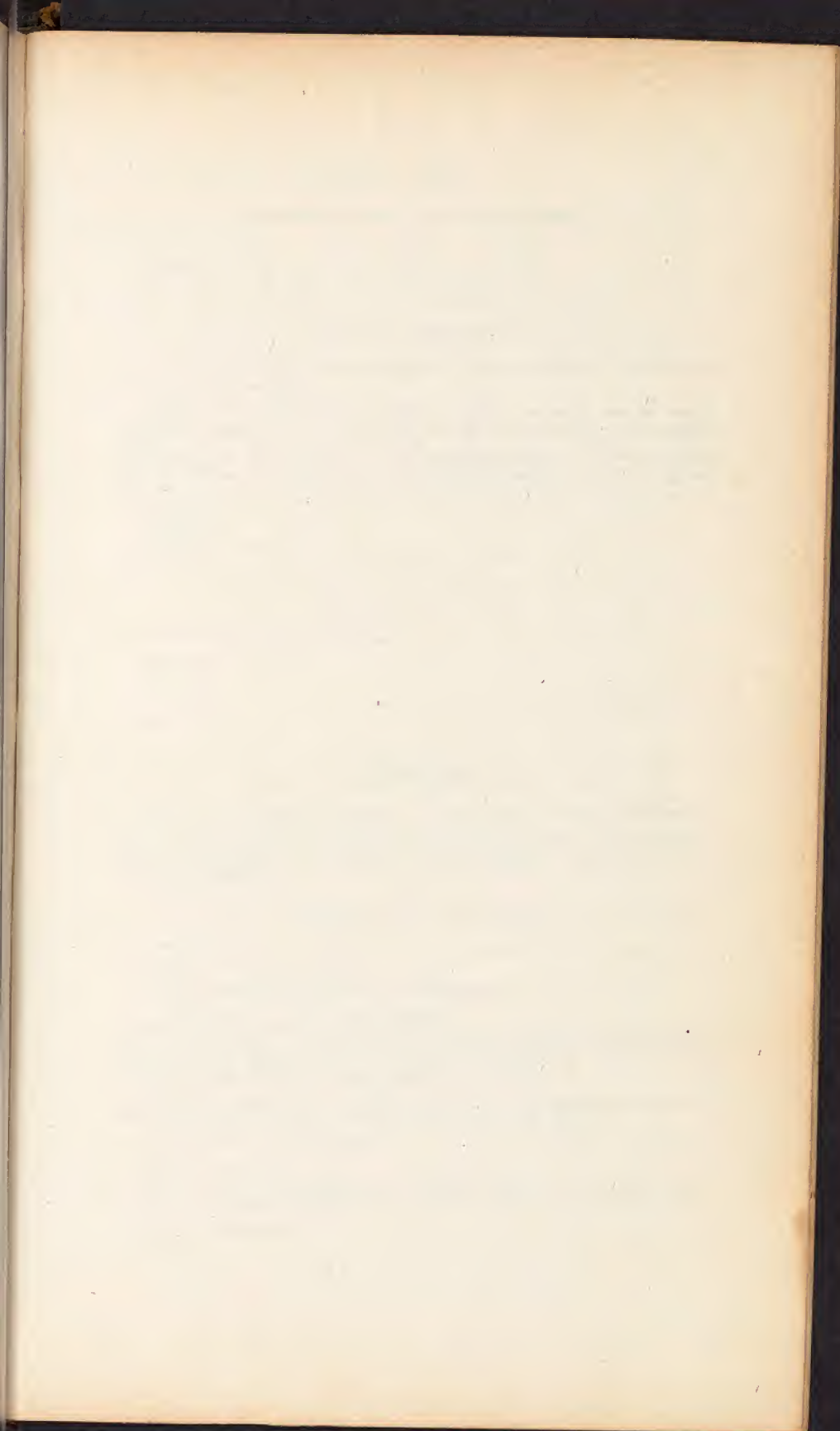
Alapocina - Cut off hair  
Sulphur bath - give Iod Pot - as Men  
and Sarsap. Empirical Remedy -



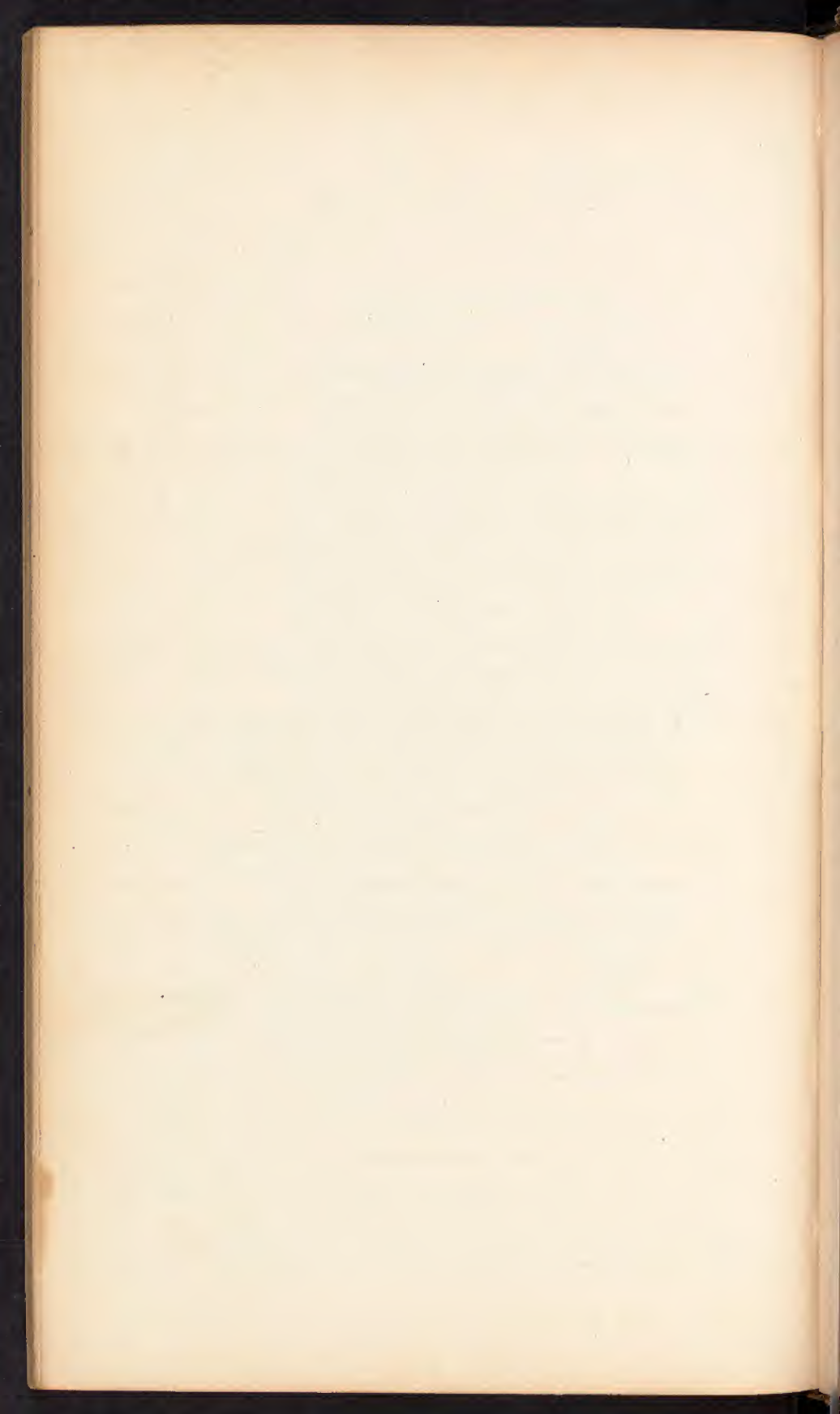












DESCENT OF TESTIS INTO THE PERINEUM.

*Causes.*

*Diagnosis.*

*Treatment*

ATROPHY OF THE TESTIS.

*Division.*—Into that which arises from arrest of development, and that the consequence of wasting.

*Causes.*—Of the first variety, imperfect descent, congenital inguinal hernia, congenital imperfection of the brain; of the second variety, inflammation, injuries of the head, impeded circulation, pressure, want of exercise, loss of nervous influence, excessive venery, and by some writers the long continued use of iodine.

*Diagnosis.*

*Prognosis.*

*Treatment.*

INJURIES OF THE TESTIS.

*Nature of these.*—Contusions and wounds.

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

HYDROCELE.

*Division.*—Into Simple Hydrocele of the Testis; Congenital Hydrocele, and Encysted Hydrocele of the Testis; Diffused Hydrocele of the Spermatic Cord; Encysted Hydrocele of the Cord; Hydrocele of the Hernial Sac; Hydrocele of the Female.

I. HYDROCELE OF THE TESTIS.

*Definition.*

*Varieties.*—Single and double.

*Characteristic of fluid.*—Its nature; its quantity.

*Predisposing causes.*—Age and climate.

*Exciting causes.*—Inflammation, obstruction of circulation, inguinal herniæ, strains, or great fatigue, blows, the presence of loose bodies in the tunica vaginalis testis, and disease of the testis itself.

*Symptoms.*—A pyriform swelling, elastic, and fluctuating, transparent, movable but remains constant under pressure, little or no pain.

*Time required for its formation.*

*Situation of the testis.*

*Diagnosis.*—May be confounded with scrotal hernia, or malignant disease of the testis, or varicocele, &c.

*Mode of examination.*

*Prognosis.*

*Treatment.*—By external remedies and by operation; treatment by operation is either palliative or radical.

*Nature of external remedies.*—Cases to which they are suited.

*Palliative treatment by operation*—By tapping; by acupuncture.

*Period required for its re-accumulation.*

*Radical treatment by operation.*—By incision; excision; caustic; tent; seton; electro-puncture; and by injection.

*Operation to be preferred.*

*Apparatus required.*

*Kinds of injection.*

*Dangers of operation.*

*Advantages of.*

*Complications.*—Encysted hydrocele of the testis; encysted hydrocele of the cord; diffused hydrocele of the cord; oscheo-hydrocele.

## II. CONGENITAL HYDROCELE OF THE TESTIS.

*Definition.*

*Symptoms.*

*Diagnosis.*—May be confounded with simple hydrocele, or reducible scrotal hernia.

*Prognosis.*

*Treatment.*—By truss and by injection.

*Dangers of latter.*

## III. ENCYSTED HYDROCELE OF THE TESTIS.

*Definition.*

*Structure of cyst.*

*Situation of cyst.*—Either beneath that part of tun. vagin. testis covering the epididymis; between the tun. vaginal. testis and the tun. albuginea; or between the layers of the outer portion of the tunica vaginalis.

*Usual situation.*

*Nature of fluid.*

*Symptoms.*

*Diagnosis.*—May be confounded with simple hydrocele.

*Prognosis.*

*Treatment.*

*Operation to be preferred.*

## IV. DIFFUSED HYDROCELE OF THE SPERMATIC CORD.

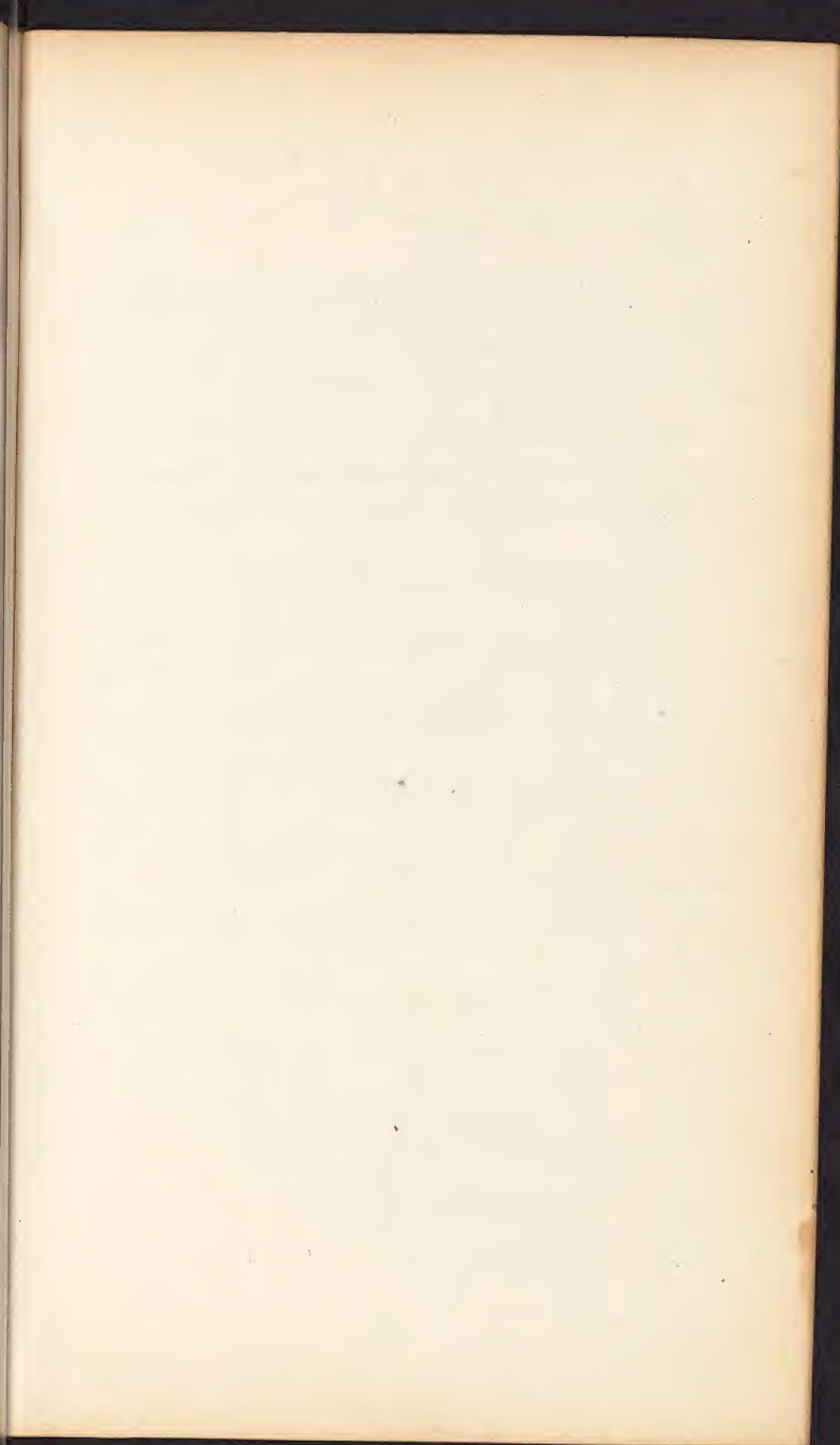
*Nature and seat of disease.*

*Symptoms.*

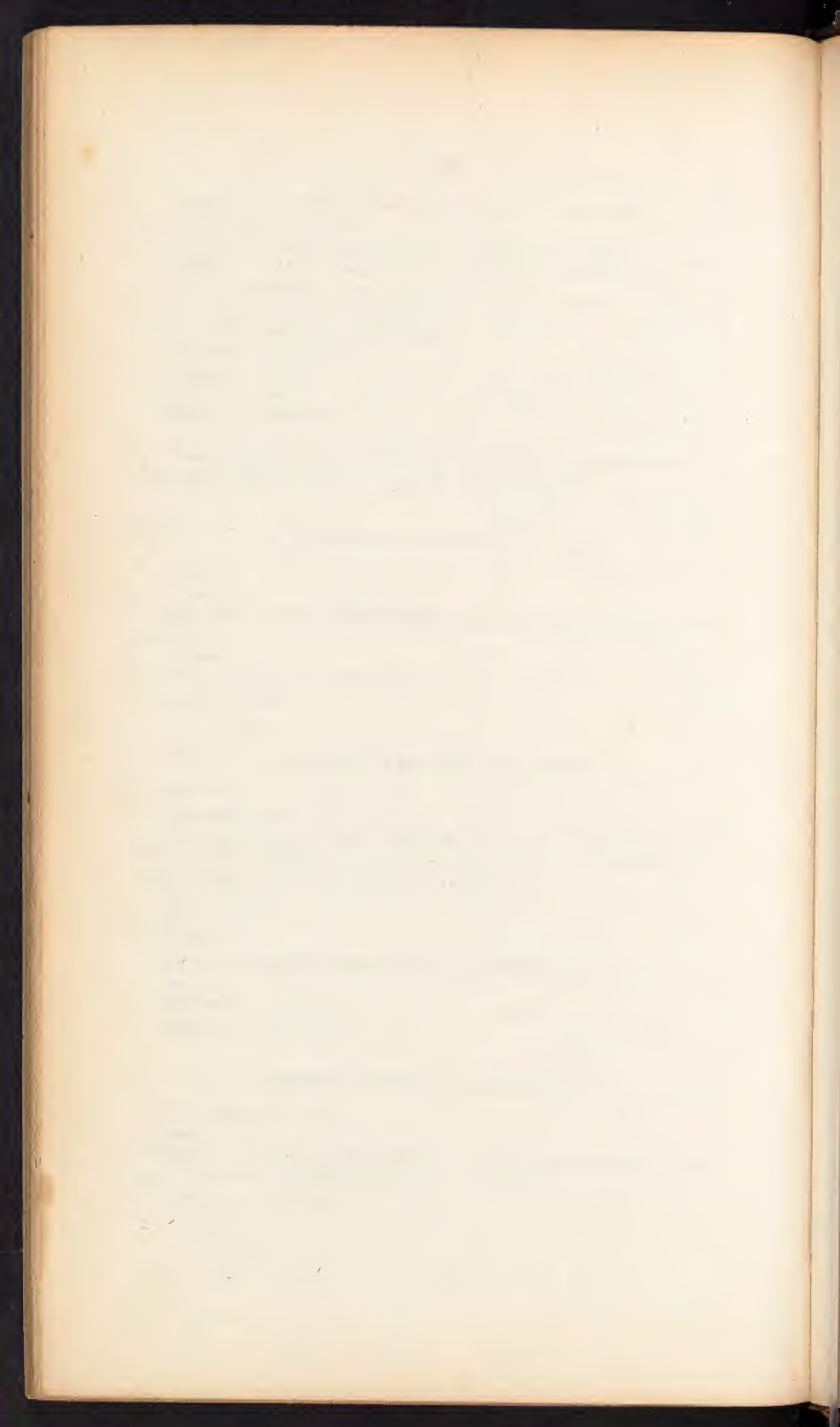
*Diagnosis.*—May be confounded with an omental hernia, an encysted hydrocele, or varicocele, or retained testis.

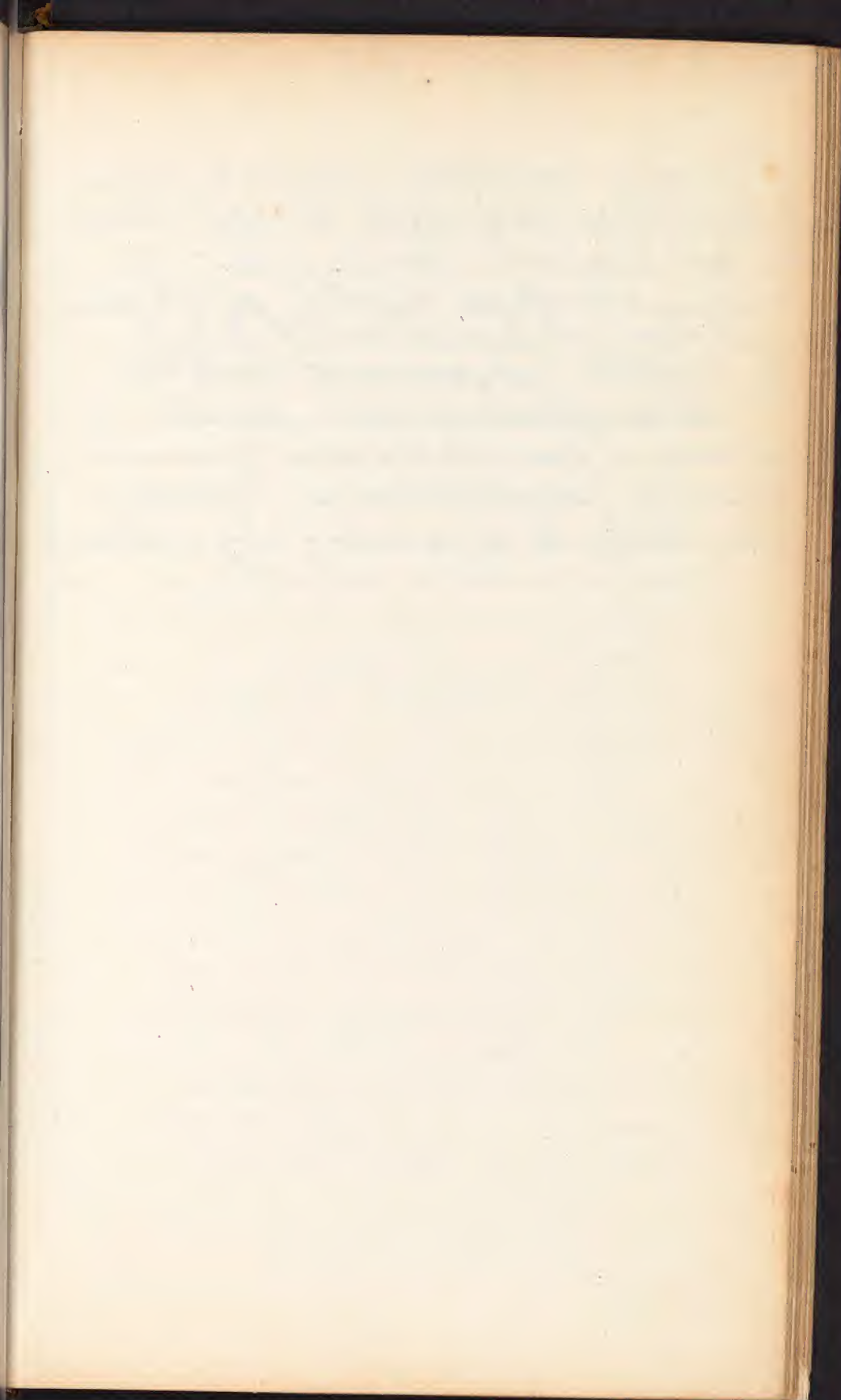
*Prognosis.*—Favorable.

*Treatment.*

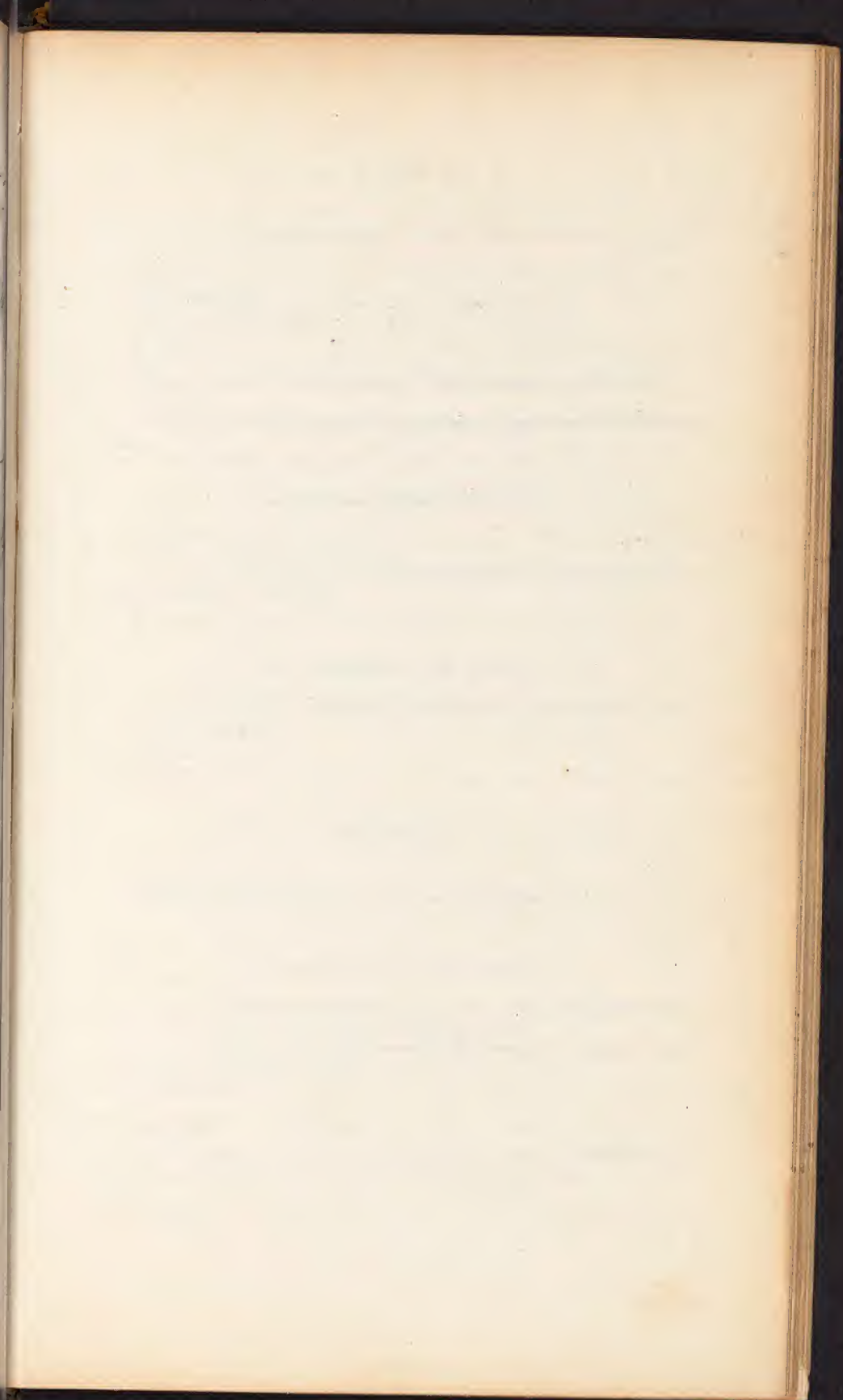








Varicella Smallpox. a disease of an  
eruptive type which affects the skin about  
the third day with a small point - this  
breaking out into an eruption on 9th day  
5 Stages - 1st Incubation 2nd Eruption  
3rd Eruption - 4th progress of Eruption  
5th Disappearance - Duration of  
disease is from 10 to 14 days general  
average about 12 days - of the above  
often destroys the eye by acting very insidiously





My dear friend  
I have just received your letter  
and am very glad to hear from you.  
I am well and hope this finds you the same.  
I have been thinking of you very much lately  
and wondering how you are getting on.  
I hope you are happy and content.  
I have been very busy lately  
but I will try to write to you more often.  
I am your friend  
John Smith



V. ENCYSTED HYDROCELE OF THE SPERMATIC CORD.

*Definition.*

*Age most liable.*

*Nature and seat of cyst.*

*Causes.*

*Symptoms.*

*Diagnosis.*—May be confounded with simple hydrocele or with hernia.

*Prognosis.*

*Treatment.*—Palliative and radical by operation; operation of Mr. Hey and others.

VI. HYDROCELE OF THE HERNIAL SAC.

*Definition.*

*Causes.*—Congenital and accidental.

*Diagnosis.*—May be confounded with simple hydrocele, or encysted hydrocele of the cord, or with hernia.

*Treatment.*

VII. HYDROCELE IN THE FEMALE.

*Varieties.*—Diffused and encysted hydrocele of the round ligament; hydrocele of the canal of Nuck.

*Diagnosis.*

*Prognosis.*

*Treatment.*

HÆMATOCELE.

*Definition.*

*Varieties.*—That of tunica vagin. testis, and that of the cord.

I. HÆMATOCELE OF THE TESTIS.

*Varieties.*—Where the extravasation takes place in the healthy state of the parts, where it succeeds or is combined with a hydrocele.

*Causes.*—A blow or strain, or a wound of some vessel of tun. vagin. testis, testis itself, or of spermatic artery.

*Situation of testis.*

*Consequences.*

*Symptoms.*

*Diagnosis.*—May be confounded with hydrocele, chronic enlargement of the testis, extravasation of blood in the cellular tissue of scrotum.

*Prognosis.*

*Treatment.*

II. HÆMATOCELE OF THE SPERMATIC CORD.

*Causes.*

*Liability of occurrence.*—Rare.

*Symptoms.*

*Diagnosis.*—May be confounded with diffused hydrocele of the cord.

*Prognosis.*—Favorable.

*Treatment.*

ACUTE ORCHITIS.

*Varieties.*—Primary and consecutive.

*Exciting causes.*—Contusion, compression, great excitement of the sexual organs, metastasis from salivary glands, an inflammatory action of the urethra.

*Predisposing causes.*—Scrofula.

*Symptoms.*—Local and Constitutional, and vary with the form.

*Diagnosis.*—May be confounded with strangulated inguinal hernia, imperfect descent of testis, &c.

*Prognosis.*—Generally favorable, varies, however, with the cause.

*Consequences.*

*Terminations.*—Resolution, hardening, suppuration.

*Treatment.*—Leeching, venesection, cold and warm lotions, purging, compression, &c.

II. CHRONIC ORCHITIS.

*Anatomical characters.*

*Consequences.*

*Causes.*—Slight contusions, venereal excesses, masturbation, urethral disease, syphilis.

*Symptoms.*—Usually of an indolent character.

*Terminations.*—Resolution, suppuration, ulceration, sinuses and formation of spermatic fistulæ, hernia testis.

*Diagnosis.*—May be confounded with carcinoma of testis, hæmatocele.

*Prognosis.*—Generally favorable.

*Treatment.*—Chiefly constitutional, mercury.

TUBERCULAR DISEASE OF THE TESTIS.

*Seat.*

*Causes.*

*Age liable.*—Rarely until after puberty.

*Symptoms.*—Insidious in their approach and indolent in their progress.

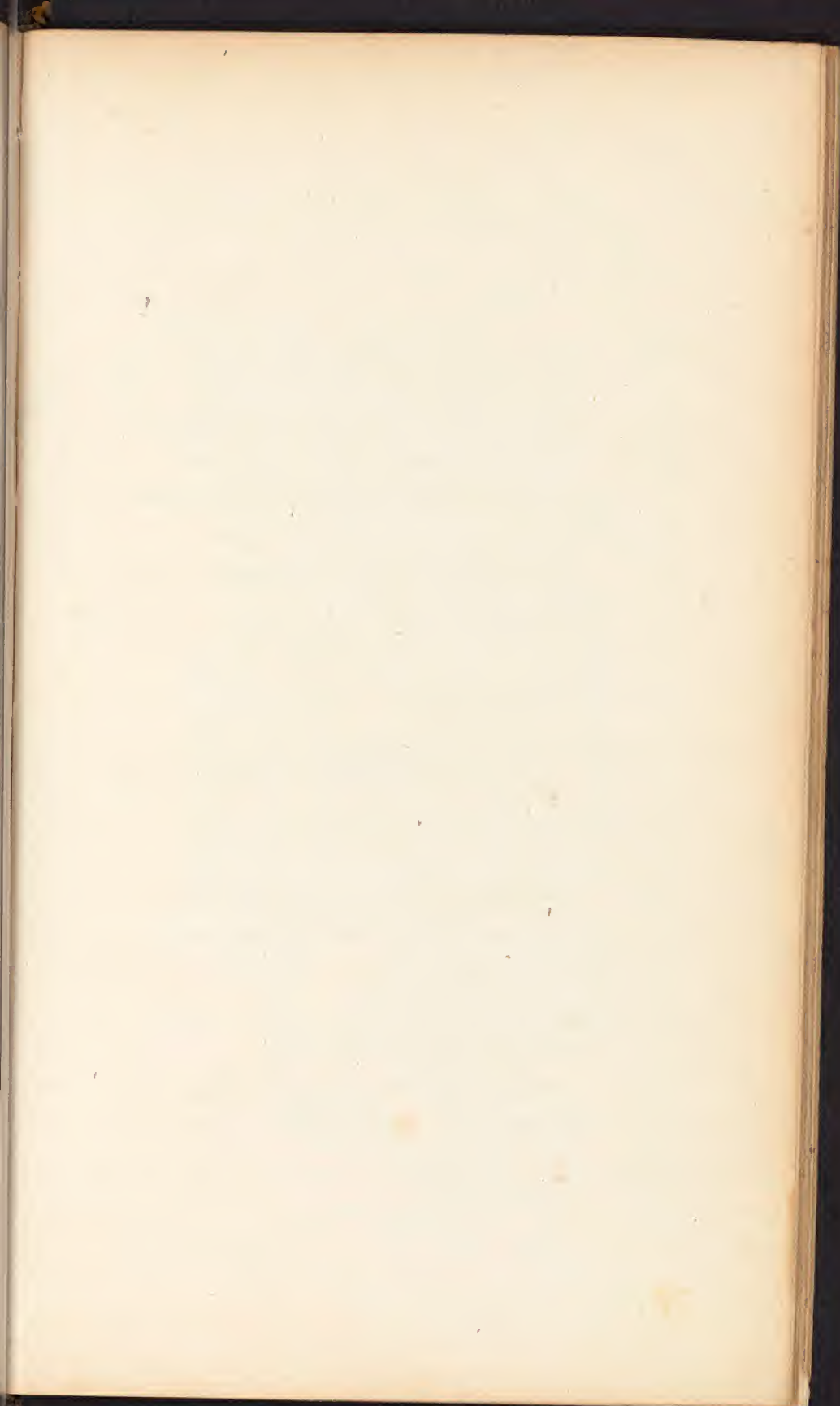
*Diagnosis.*—May be confounded with chronic orchitis, and malignant disease of the testis.

*Prognosis.*

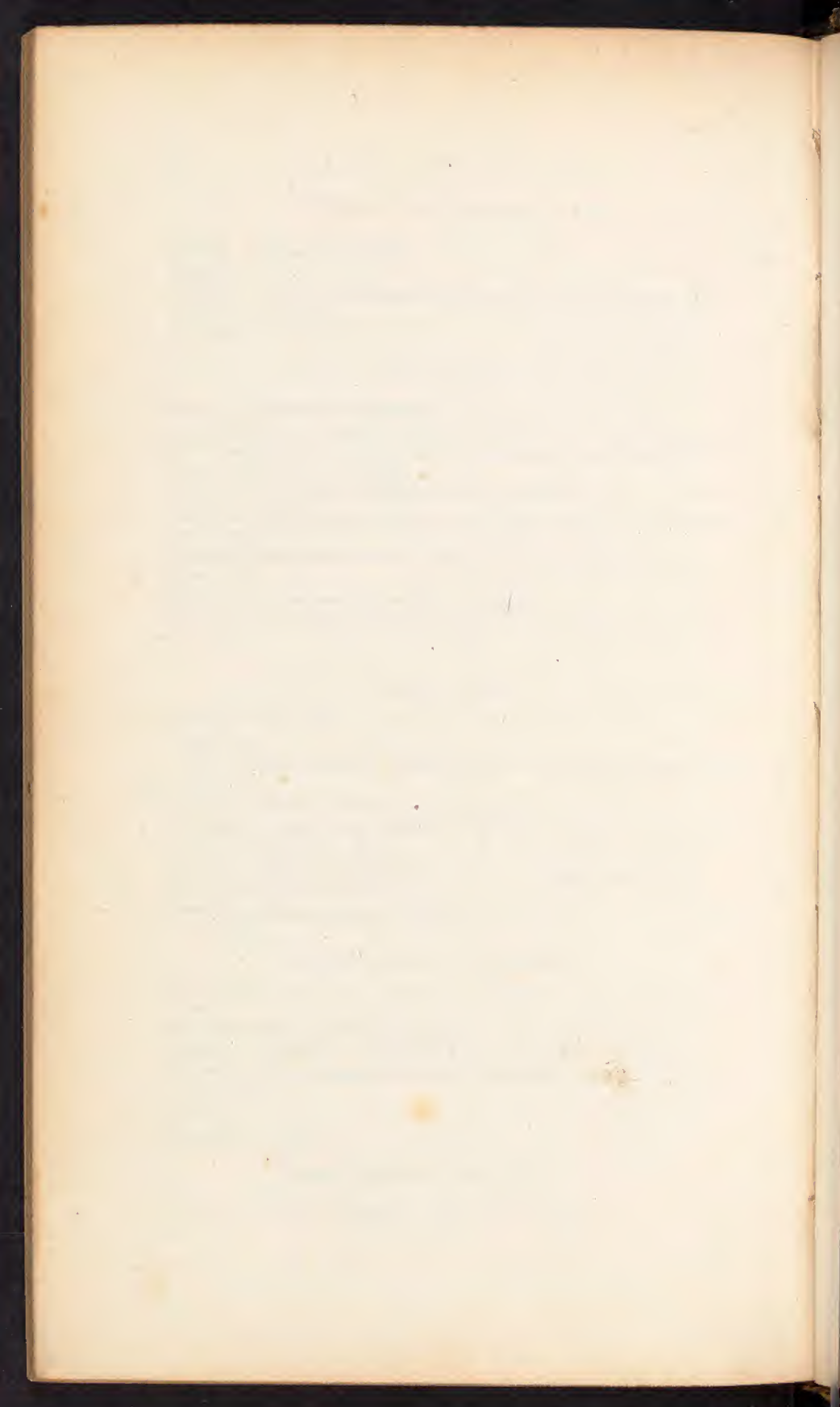
*Treatment.*—Tonic.

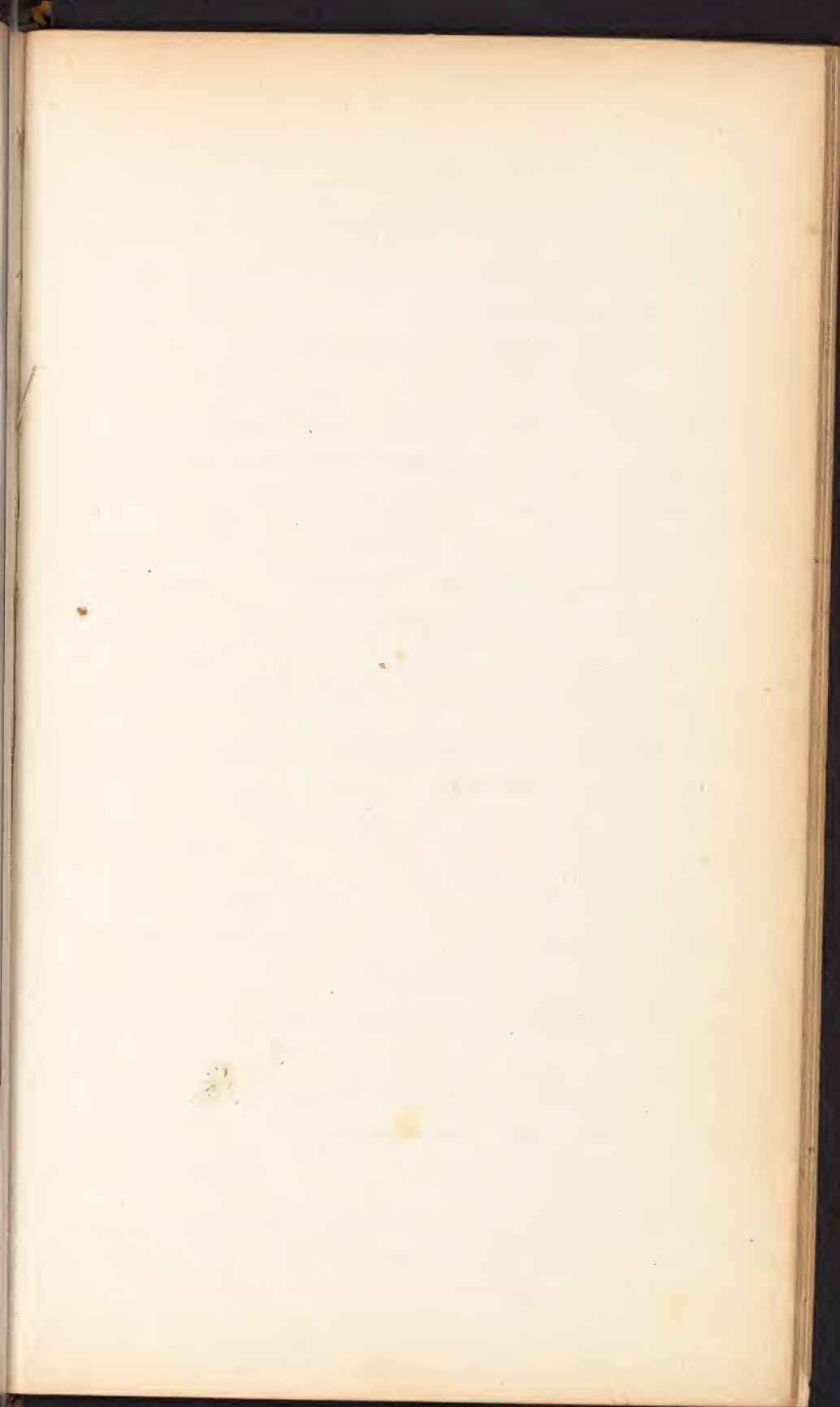
CARCINOMA OF THE TESTIS.

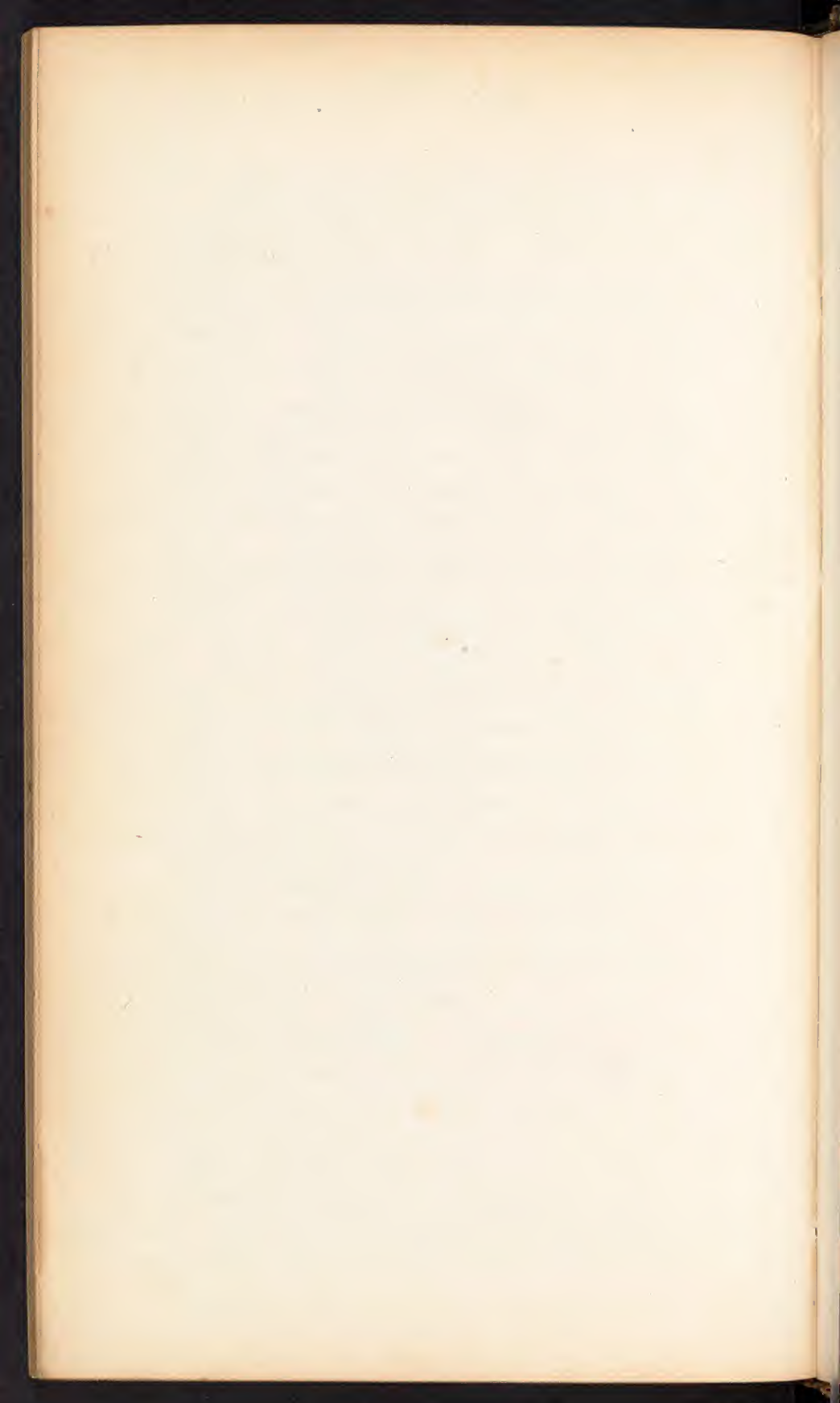
*Varieties.*—Scirrhus, Encephaloid, Colloid and Melanosis.

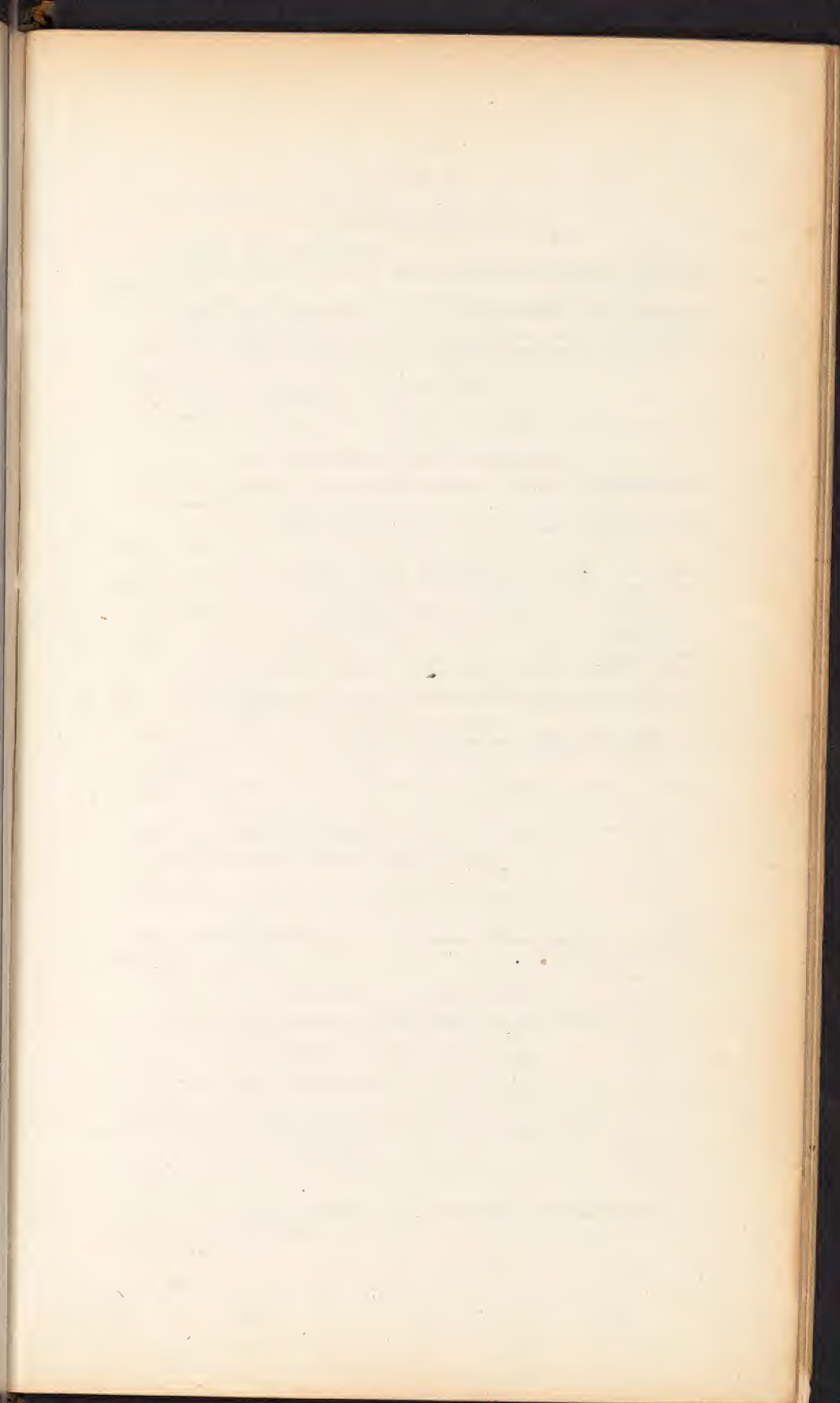




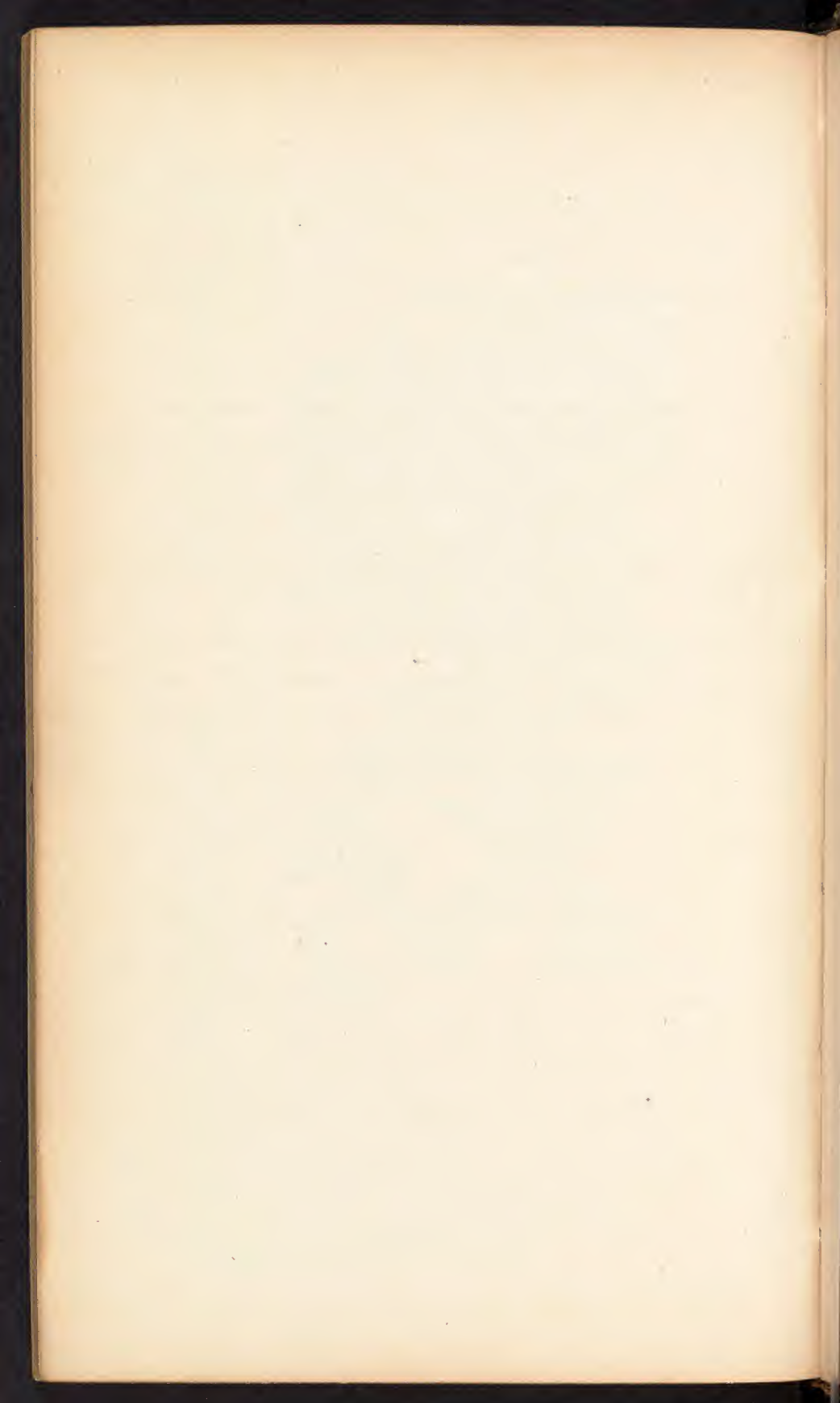












I. SCIRRHUS OF THE TESTIS.

*Frequency of disease.*—Very rare.

*Seat.*—The tubuli seminiferi, the epididymis and sometimes the spermatic cord.

*Symptoms.*—An enlargement of body of the testis with great weight, and severe occasional pain, feeling tuberculated, irregular and excessively hard.

*Diagnosis.*—May be confounded with chronic enlargement and with encephaloid disease.

*Prognosis.*—Unfavorable.

*Treatment.*

II. ENCEPHALOID CANCER OF THE TESTIS.

*Synonymes.*—Pulpy testis, medullary sarcoma, soft cancer, fungoid disease, fungus hæmatodes.

*Age most liable.*—No age is exempt, but it is more common at the middle period of life.

*Symptoms.*—An enlargement, with induration of the body of the testis, which preserves its oval form and even surface; slight tenderness, dull pain, and occasionally a little effusion into the tun. vaginalis; as the gland enlarges it becomes uneven, irregular and tuberculated, also soft and elastic; pain increases; spermatic cord becomes thick and full, scrotum is swollen and varicose; glands of neighboring regions become enlarged and painful; general health suffers; ulceration ensues, and a morbid mass protrudes in the form of a bleeding fungus, and the disease makes rapid progress.

*Diagnosis.*—May be confounded with hydrocele, hæmatocele, cystic disease, and, in its early stage, with chronic orchitis.

*Prognosis.*

*Treatment.*

Carcinoma of the Tunica Vaginalis Testis has been observed.

*Diagnosis.*—May be confounded with hydrocele.

*Prognosis.*

*Treatment.*

Colloid or Gelatiniform Cancer and Melanosis of the Testis are very rarely met with.

CYSTIC SARCOMA OF THE TESTIS.

*Synonymes.*—Cystic Disease, Hydatid Disease, (Sir A. Cooper.)

*Anatomical seat.*—In the substance of the testis.

*Number.*—From two or three to a countless multitude.

*Size.*—Vary from a millet seed to that of a pigeon's egg.

*Nature of the contents.*

*Mode of origin.*—Difference of opinion. Sir A. Cooper's opinion.

*Age most liable.*—Middle age.

*Causes.*

*Symptoms.*

*Diagnosis.*—May be confounded with hydrocele and encephaloid cancer.

*Prognosis.*—Favorable.

*Treatment.*

FIBROUS TRANSFORMATION OF THE TESTIS.

*Anatomical seat.*

*Consequences.*

*Diagnosis.*—May be confounded with malignant disease.

*Prognosis.*

*Treatment.*

OSSIFIC DEPOSITS IN THE TESTIS.

*Anatomical seat.*—Between the tunica, or in the epididymis.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

LOOSE CARTILAGES IN THE TUNICA VAGINALIS.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

NERVOUS DISEASES OF THE TESTIS.

*Varieties.*—An exaltation of the natural sensibility of the part, or the irritable testis of most writers, and neuralgia of the spermatic nerves.

1. IRRITABLE TESTIS.

*Symptoms.*—No perceptible alteration in the parts, but a morbid sensibility accompanied by pain, and generally referred to one particular spot.

*Causes.*—Constitutional, chiefly.

*Diagnosis.*

*Prognosis.*

*Treatment.*

2. NEURALGIA OF THE TESTIS.

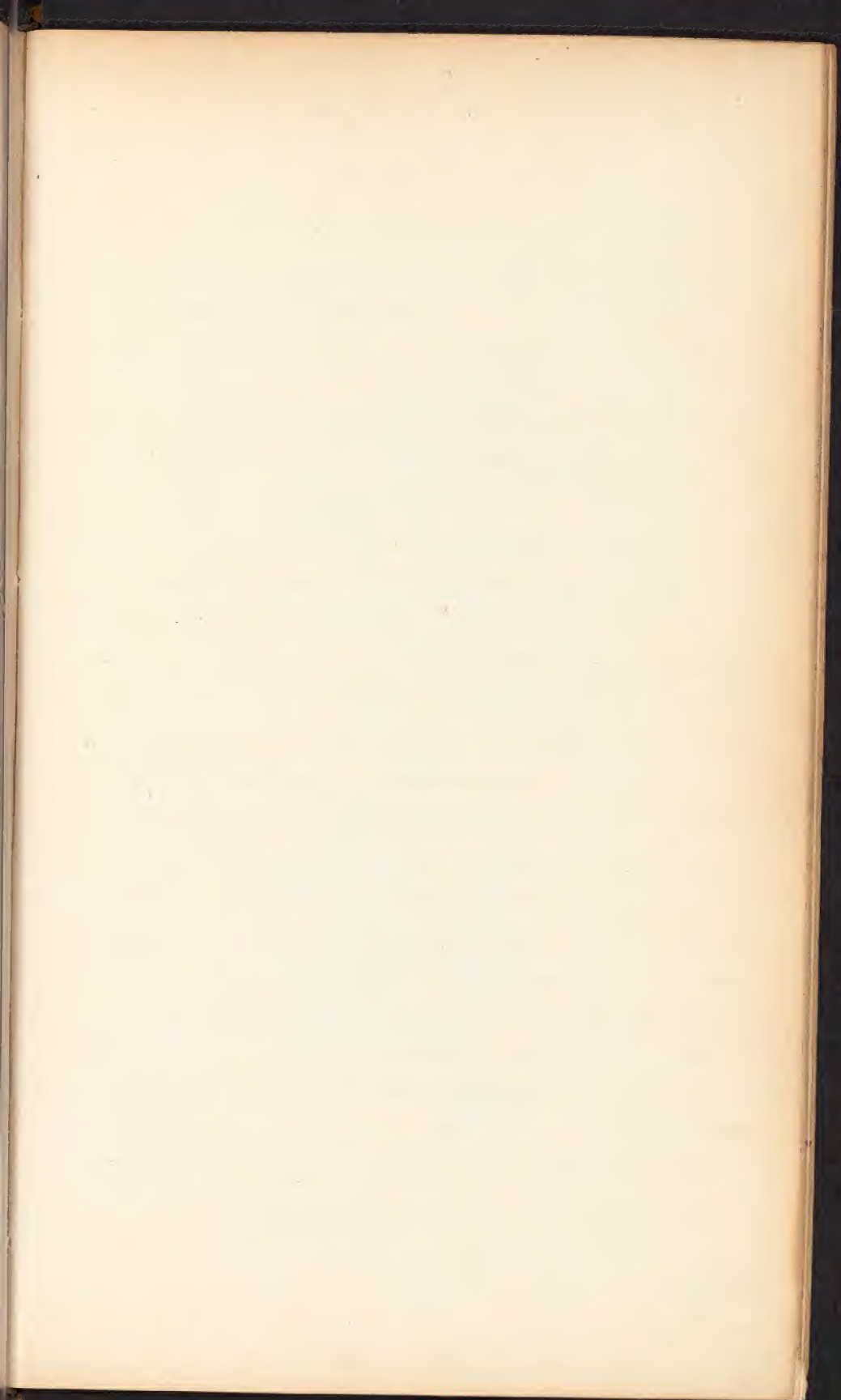
*Causes.*—Disease of the kidney, the passage of a calculus along the ureter, varicocele, orchitis, but often the cause is hidden.

*Symptoms.*—Sudden, severe, remitting pain, either of a lancinating or of a dragging or pricking character, and is commonly attended with spasmodic action of the cremaster, and sometimes with nausea and vomiting.

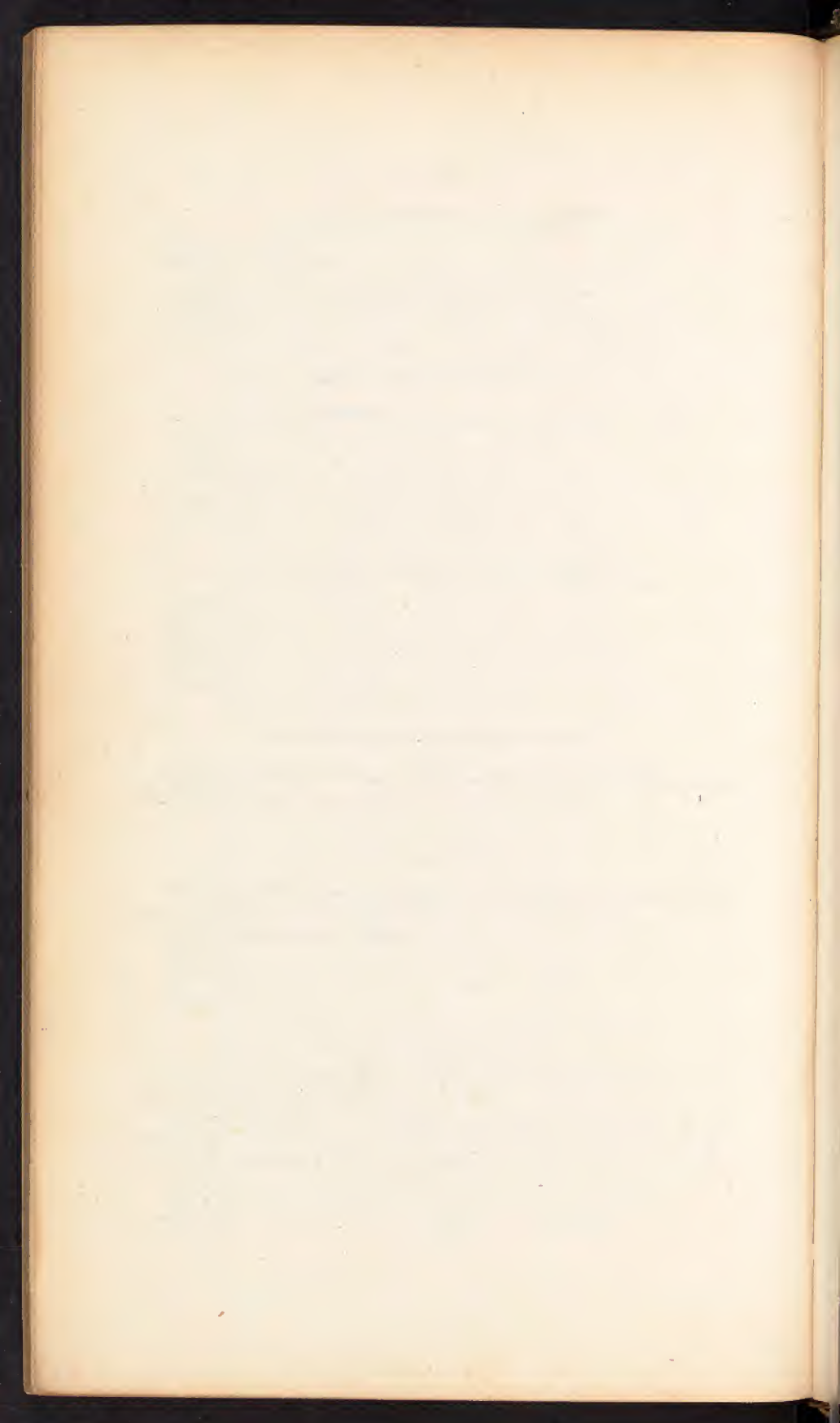
*Diagnosis.*

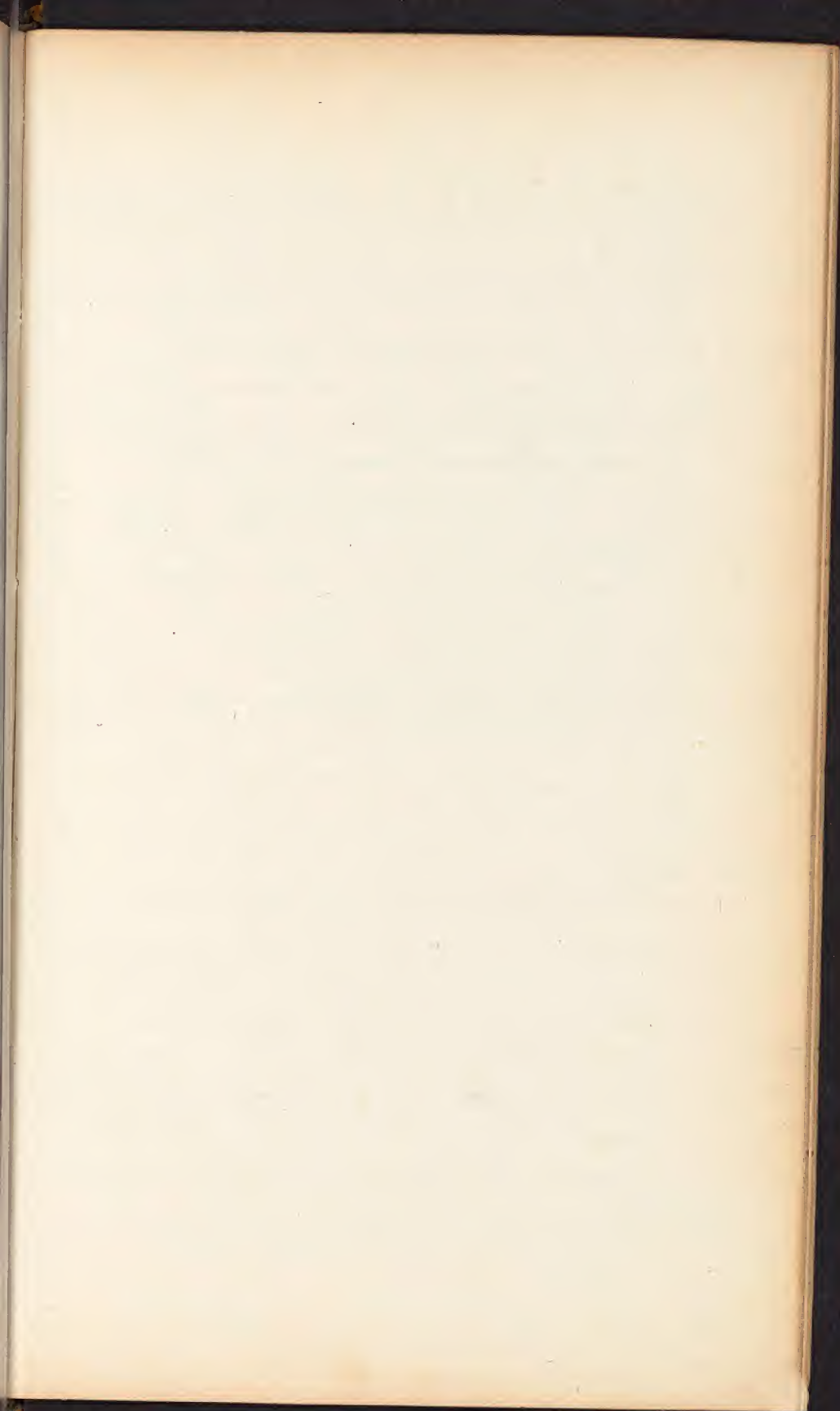
*Prognosis.*

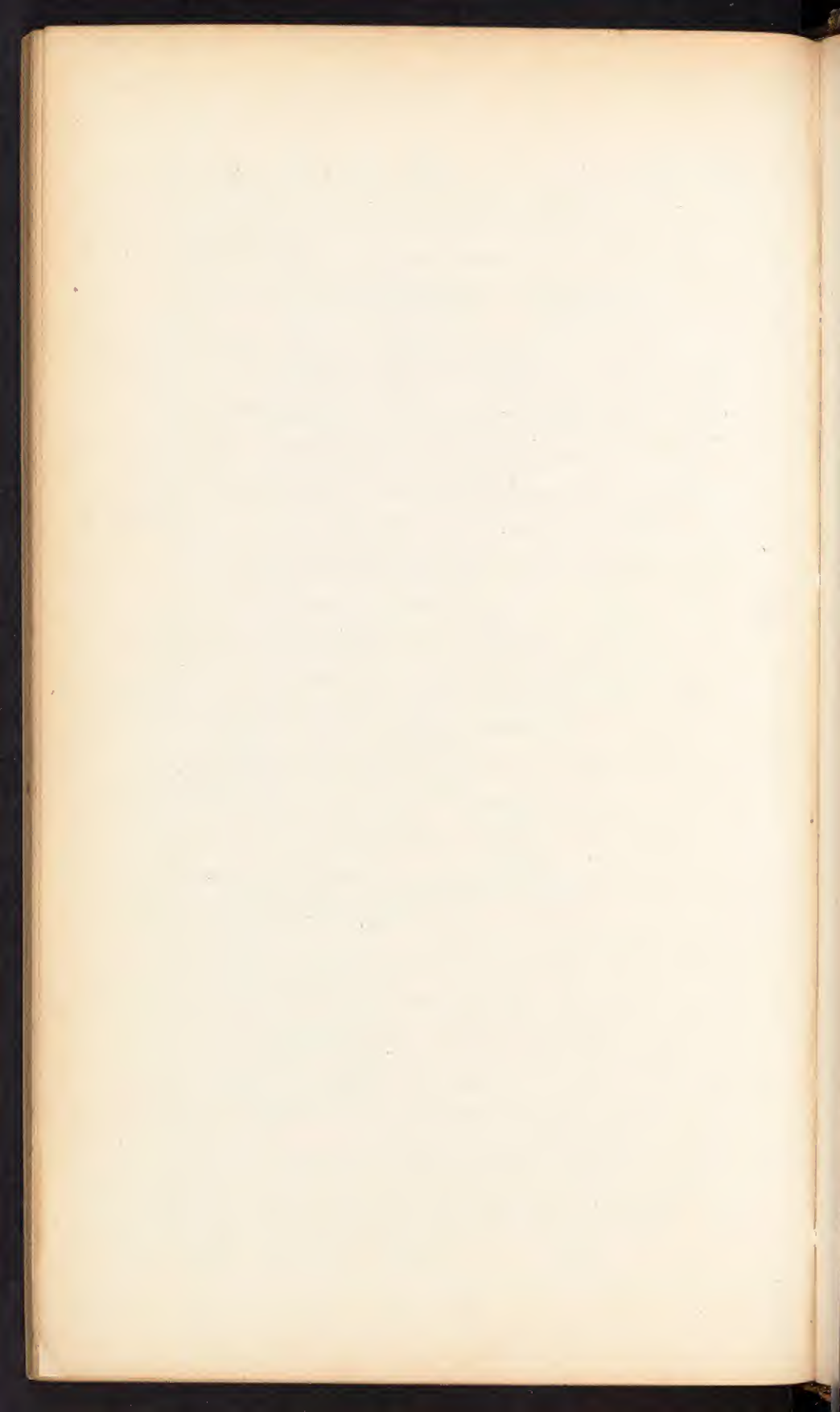
*Treatment.*

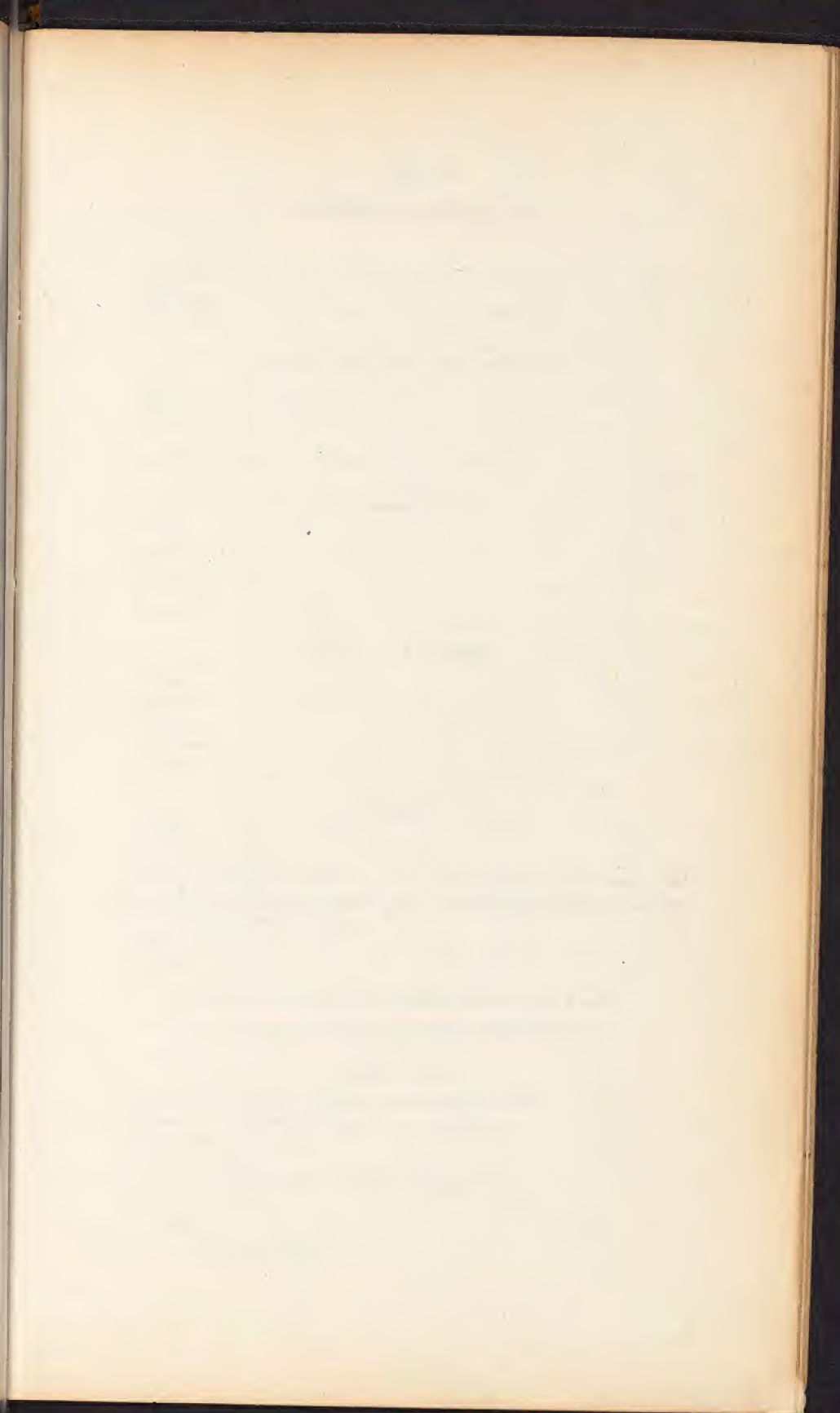




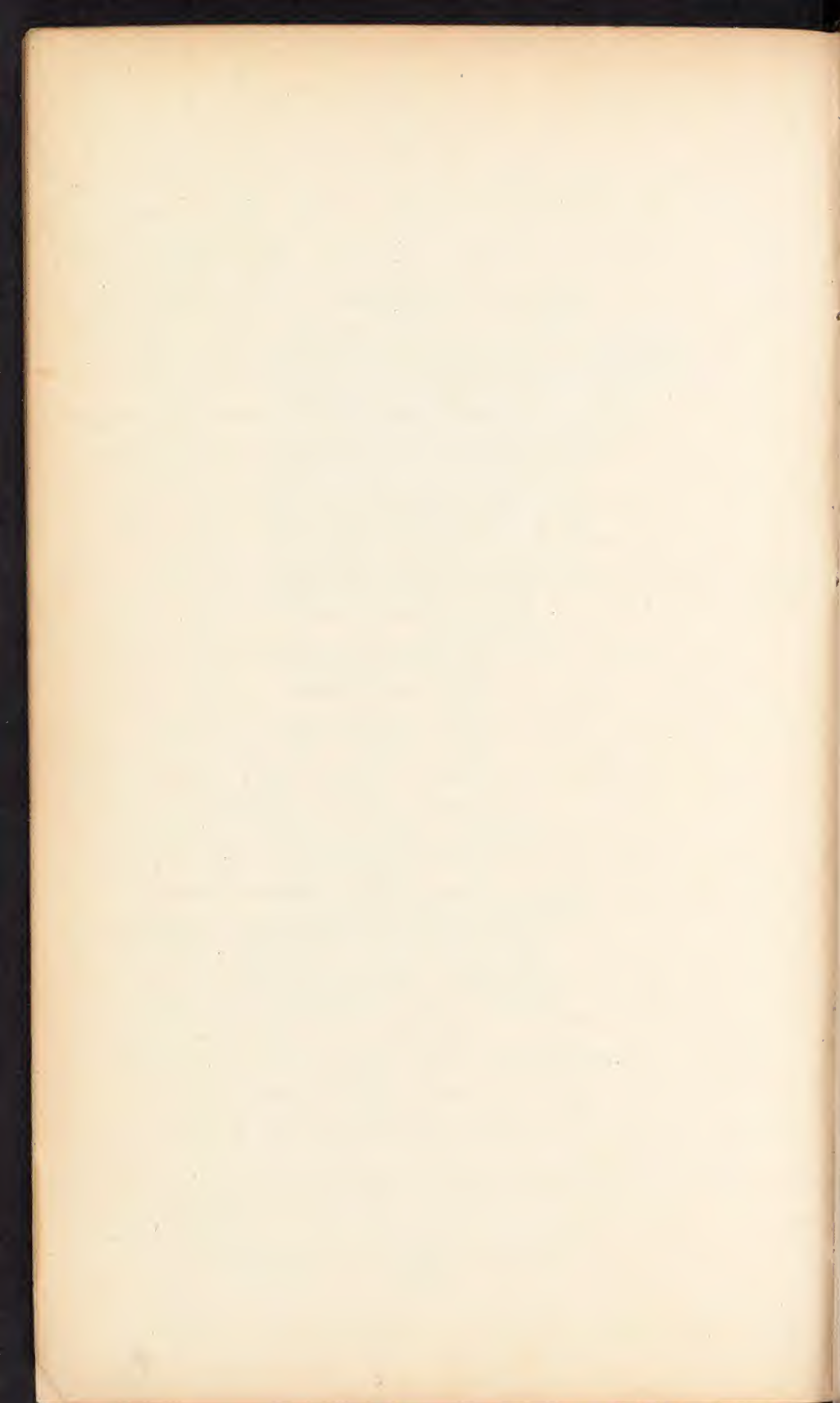












HARDENING OF THE EPIDIDYMIS.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

ABSCESS OF THE TESTIS AND EPIDIDYMIS.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

FISTULA.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

FUNGUS OF THE TESTIS.

*Causes.*  
*Symptoms.*  
*Diagnosis.*  
*Prognosis.*  
*Treatment.*

CASTRATION.

*Definition.*  
*History of operation.*  
*Diseases rendering it necessary.*—The different forms of carcinoma ; tubercular disease, cystic disease, some of the terminations of inflammation, severe neuralgia combined with varicocele.  
*Steps of the operation.*  
*Dangers.*

OPERATIONS REQUIRED IN IMPERFECT DESCENT OF TESTIS.

II. DISEASES OF THE SPERMATIC CORD.

VARICOCELE.

*Definition.*—A morbid dilatation of the spermatic veins.  
*Division into varicocele and circocoele not employed.*  
*Appearances on dissection.*  
*Testis most liable.*  
*Causes.*—Anatomical structure, and accidental causes.  
*Effects.*  
*Symptoms.*  
*Time required in formation.*

*Diagnosis.*—May be confounded with scrotal hernia, or a congenital hydrocele, &c.

*Prognosis.*

*Treatment.*—Palliative and radical; Sir A. Cooper's operation; Ricord's operation; Sir B. Brodie's by division of the vessels; Celsus by ligature; modifications of operation by ligature; Breschet's by compression or excision; Pancoast's operation. The truss.

*Relative value of each.*

#### ADIPOSE TUMORS OF THE SPERMATIC CORD.

*Age most liable.*—Advanced age.

*Symptoms.*—Loose movable tumour, of a soft doughy feel and lobular character.

*Diagnosis.*—May be confounded with omental hernia, or varicocele, or hydrocele.

*Prognosis.*

*Treatment.*

#### SPASM OF THE CREMASTER.

*Causes.*—Generally symptomatic.

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

### III. DISEASES OF THE SCROTUM.

#### WOUNDS OF THE SCROTUM.

*Nature.*

*Causes.*

*Characteristics of contusions.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

#### PRURIGO SCROTI.

*Definition.*

*Symptoms.*

*Age most liable.*—Adult.

*Causes.*

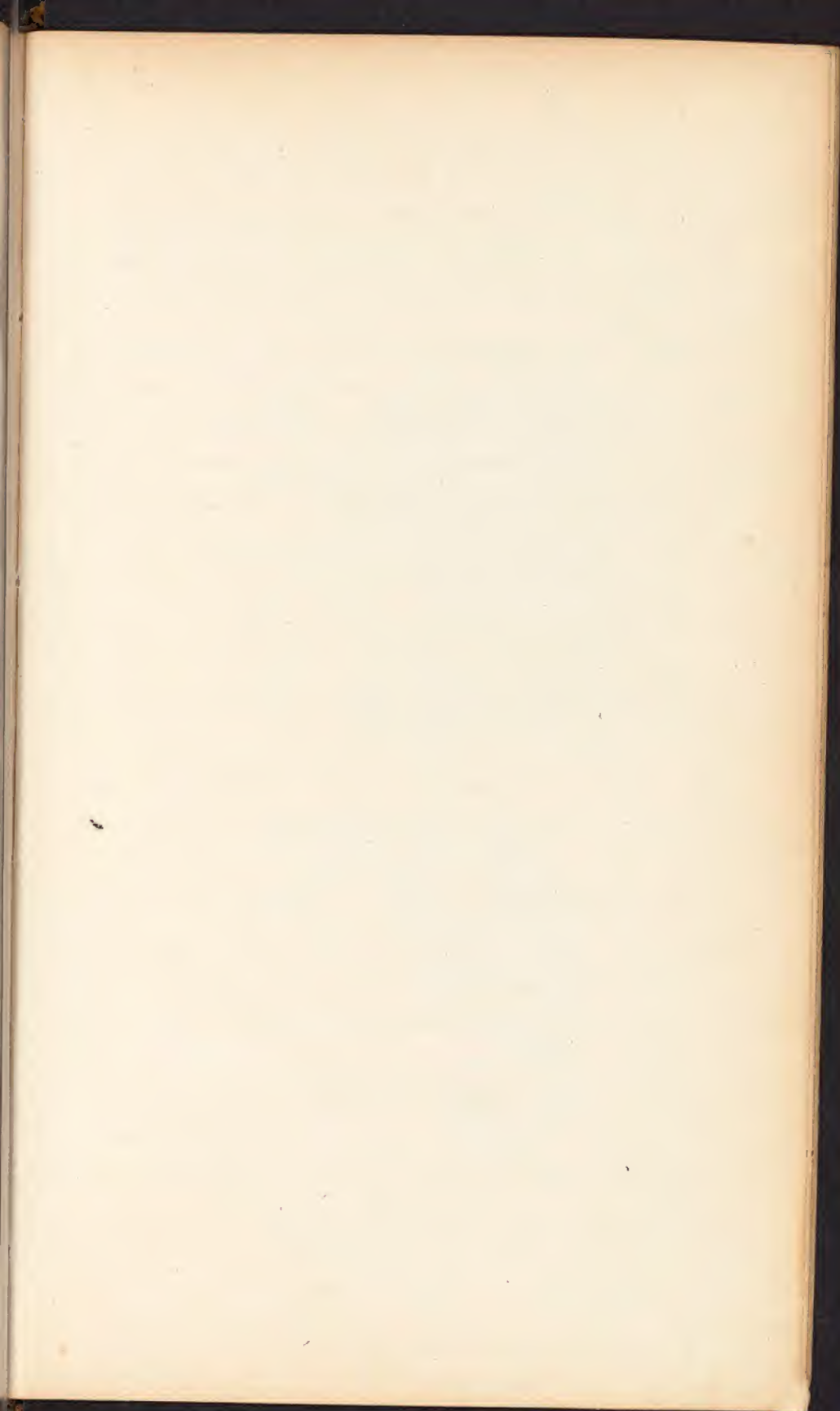
*Prognosis.*

*Treatment.*

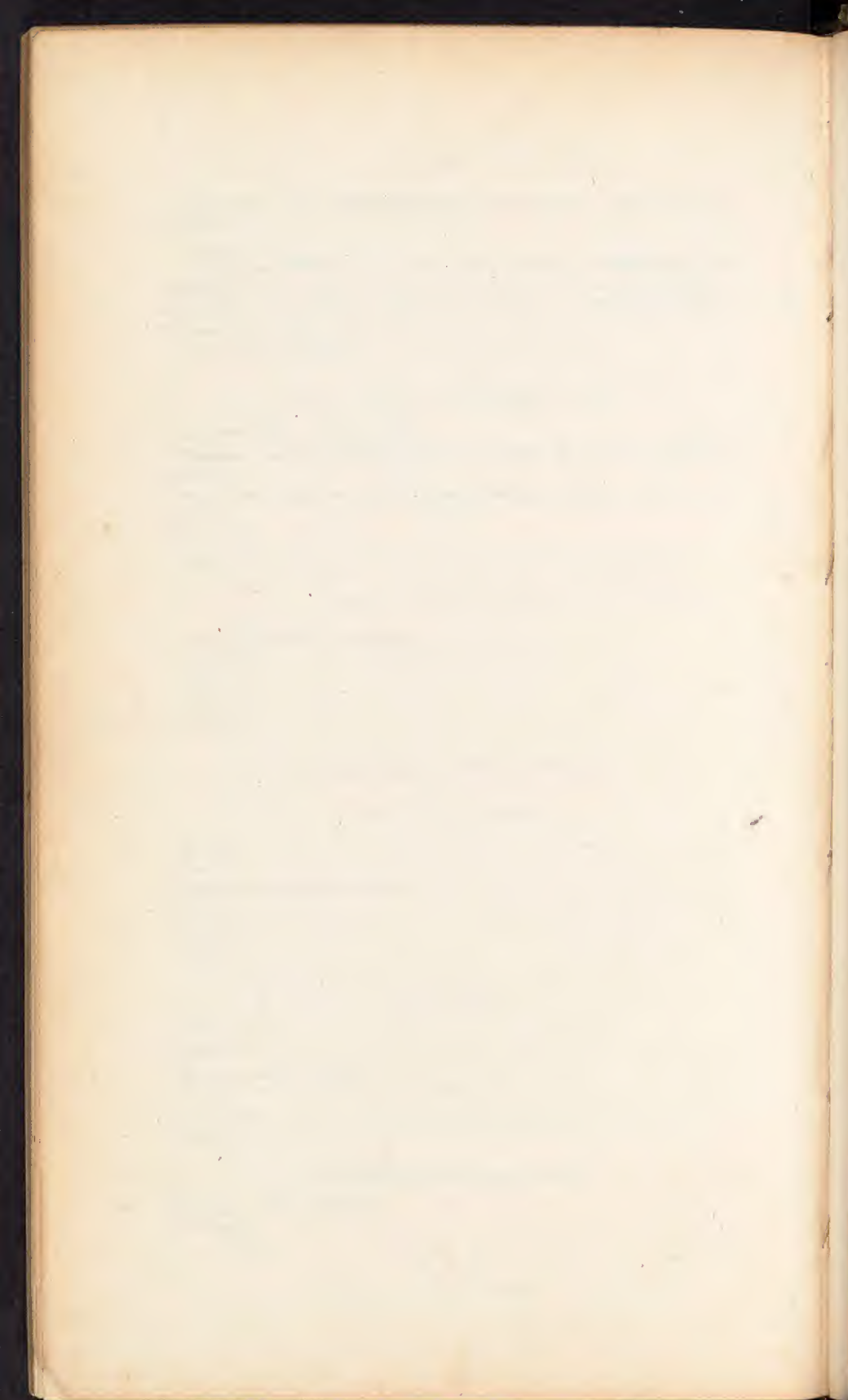
#### VARICOSE VEINS OF THE SCROTUM.

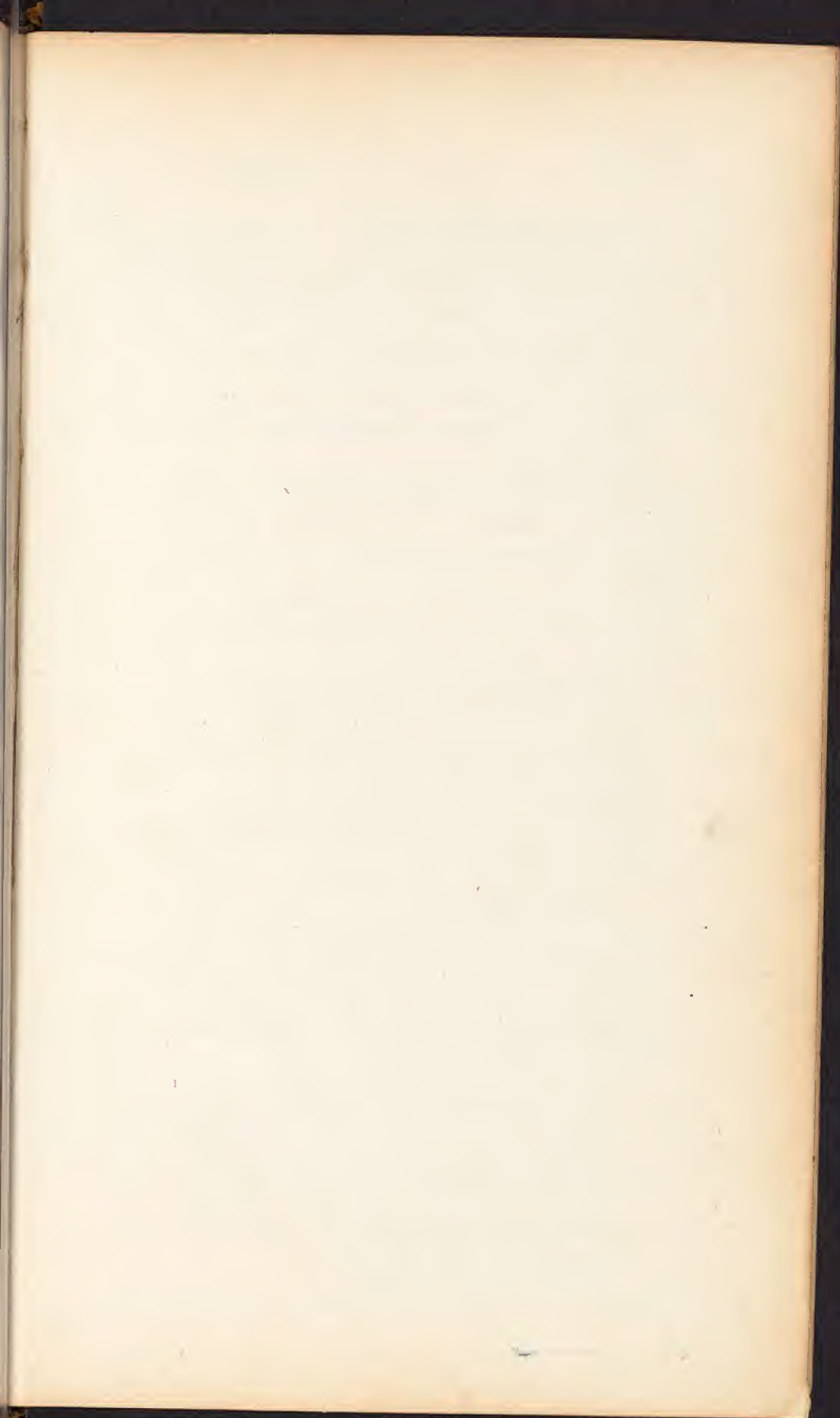
*Age most liable.*—Old age.

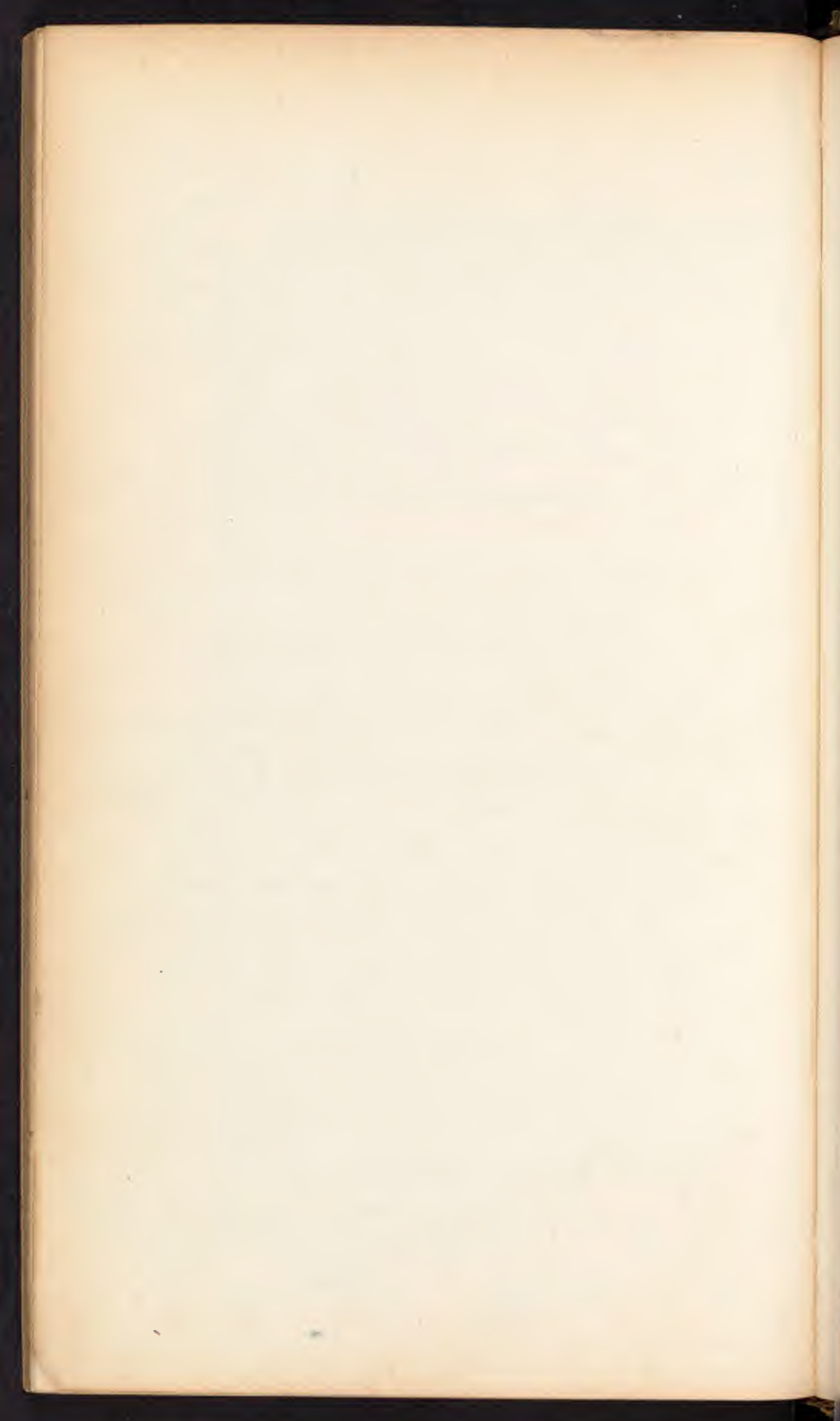
*Treatment.*

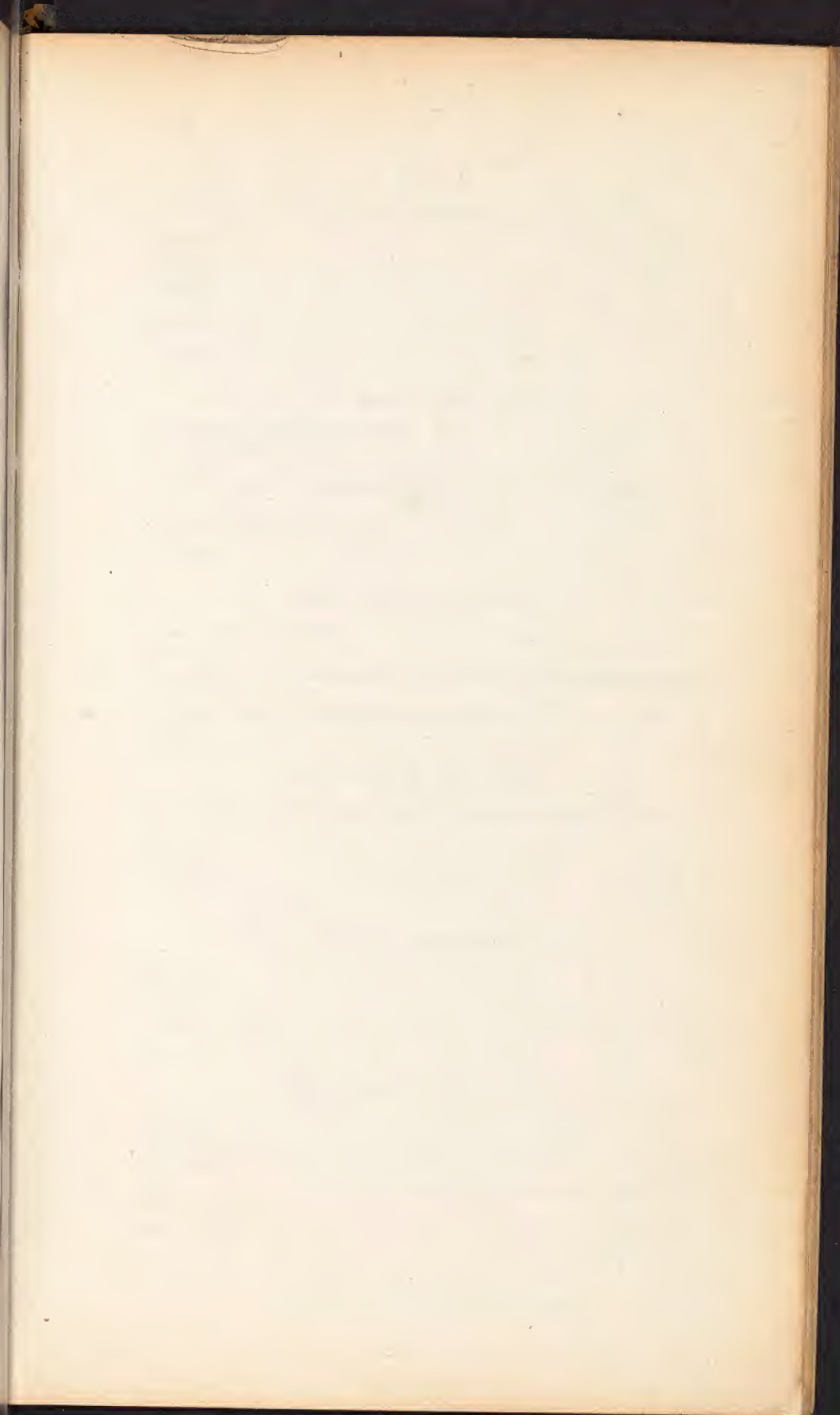




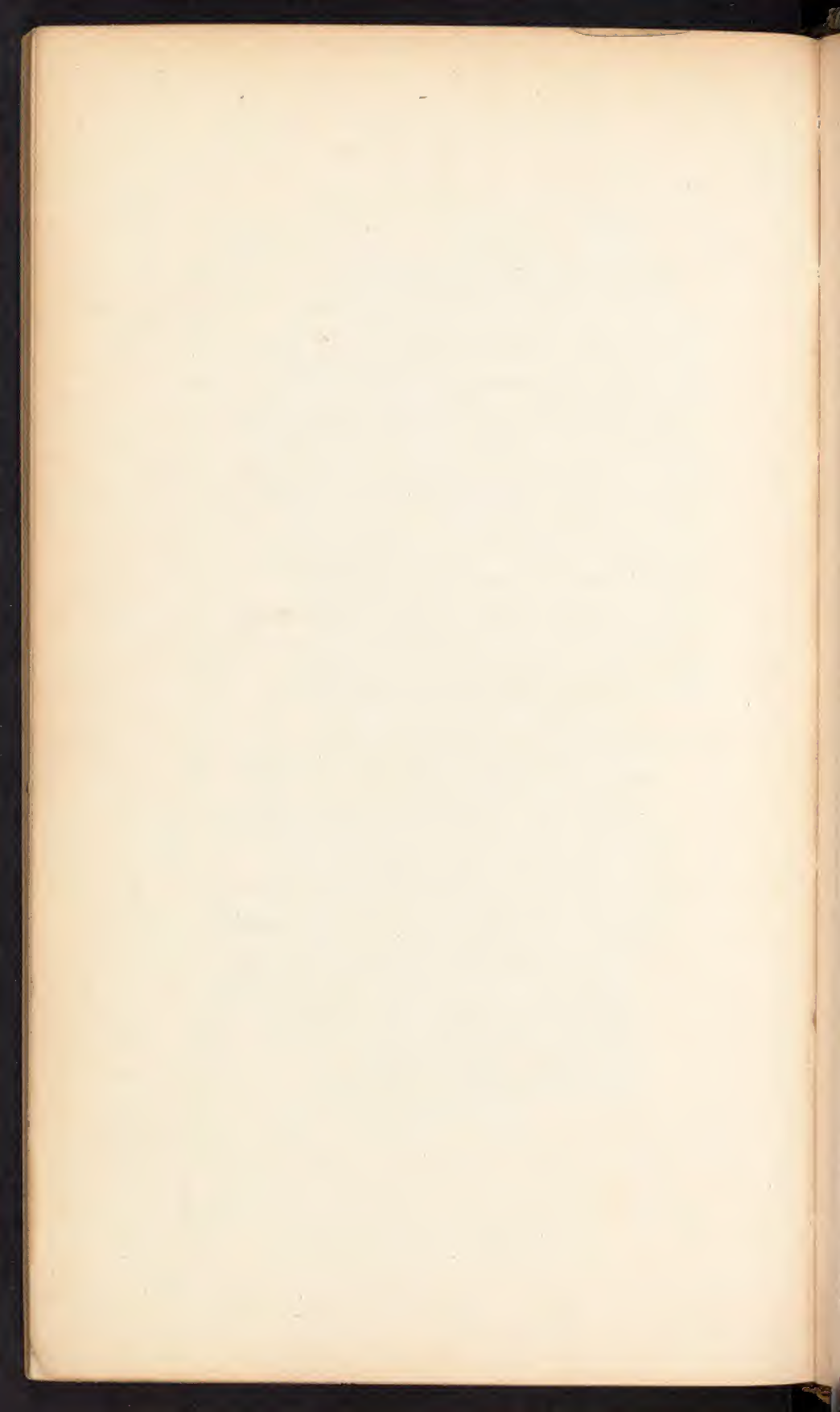












PNEUMATOCELE.

*Definition.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

ŒDEMA SCROTI.

*Synonyms.*—Anasarcaus hydrœcele.

*Causes.*—Mostly symptomatic.

*Symptoms.*

*Diagnosis.*—May be confounded with hydrocele, and elephantiasis of the scrotum.

*Prognosis.*—Depends on cause.

*Treatment.*

INFLAMMATION OF THE SCROTUM.

*Forms.*—Mild and severe.

*Symptoms of each.*

*Terminations of each.*—Of the mild, resolution. Of the severe, mortification, and rarely effusion of lymph or pus.

*Diagnosis.*—May be confounded with œdema.

*Treatment.*

MORTIFICATION OF THE SCROTUM.

*Causes.*—Severe inflammation, excessive cold, extravasation of urine.

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

ABSCESS OF THE SCROTUM.

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

ELEPHANTIASIS OF THE SCROTUM.

*Definition.*

*Anatomical seat.*

*Pathology.*

*Causes.*

*Symptoms.*

*Size of tumor.*

*Complications.*—Scrotal hernia and hydrocele.

*Diagnosis.*—May be confounded with œdema, &c.

*Prognosis.*

*Treatment.*

*Dangers of operation.*

#### HYPERTROPHY OF THE SCROTUM.

*Definition.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

#### CANCER OF THE SCROTUM.

*Synonyme.*—Chimney-sweeper's cancer.

*Symptoms.*

*Causes.*

*Diagnosis.*

*Prognosis.*—Unfavorable.

*Treatment.*

#### MELANOSIS OF THE SCROTUM—RARELY MET WITH.

#### TUMORS OF THE SCROTUM.

*Varieties met with.*—Adipose, fibrous, &c. &c.

*Anatomical seat.*

*Causes.*

*Symptoms.*

*Diagnosis.*

*Prognosis.*

*Treatment.*

#### RESTORATION OF THE SCROTUM.

*Causes demanding the operation.*

*Mode of performance.*

#### IMPOTENCE.

*Definition.*

*Difference between impotence and sterility.*

*Sex most liable.*—The male to impotency, the female to sterility.

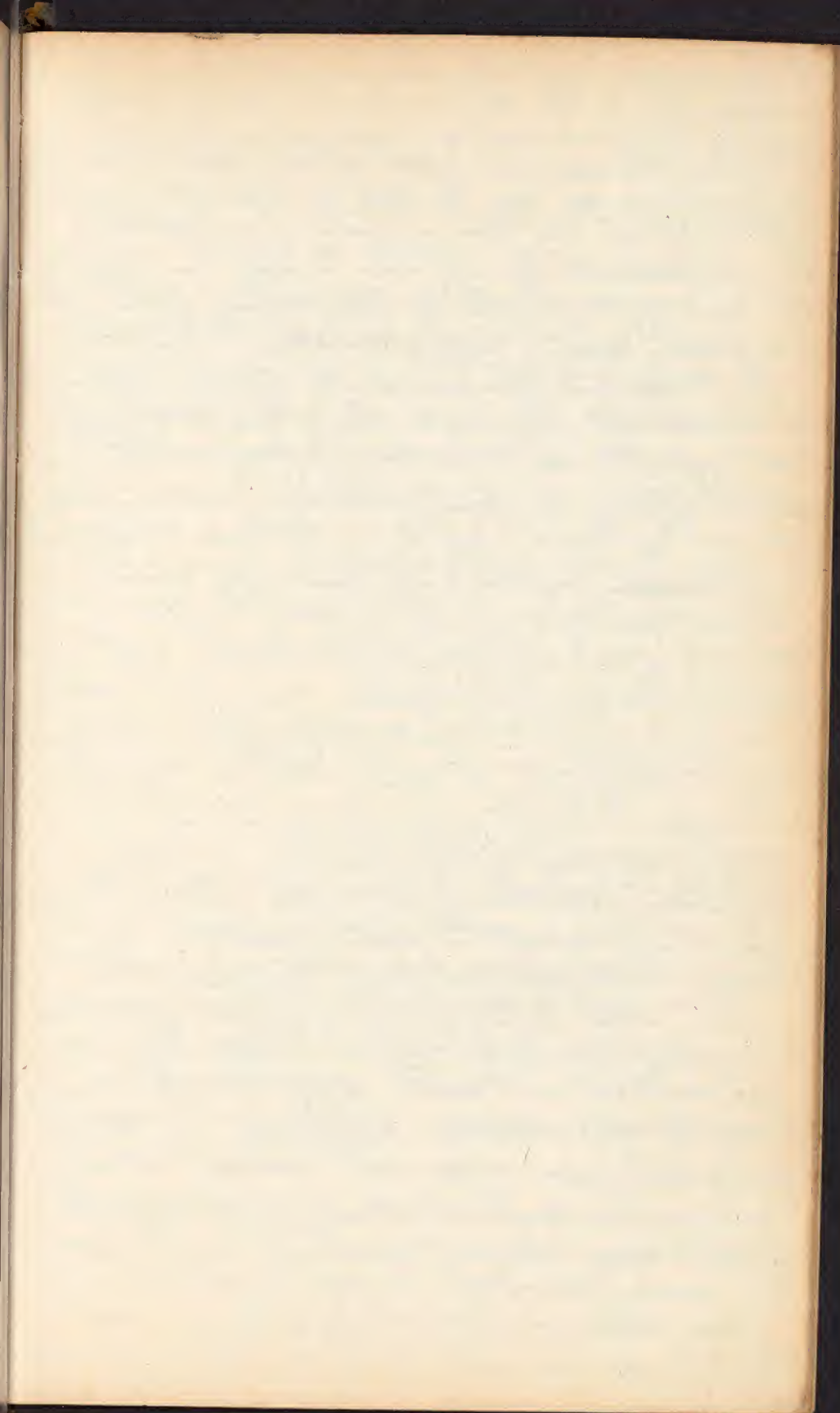
*Causes of impotency.*—1. Organic. 2. Functional. 3. Moral.

*Symptoms.*—Depend on the cause.

*Diagnosis.*

*Prognosis.*

*Treatment.*





210- Amp - limited by plasma forming the modular tissue, the object should be to have a deep small cavity or cannot wear a stump. Sometimes find a button this constitutes aneurysm - cut out the end of the nerve which forms the tumor spot in amputation for amical stump - lay open to bone and about and saw off bone - look for the artery and not for profuse hemorrhage - Supp. abundant nutrition will throw out plasma which become organized and produce immense pain - cut down and cut off - Always cover end of bone with plenty of flap if strain there will be amical stump if have not done this will be compelled to cut down and saw off piece of bone

Clavian open cutting down directly to bone sometimes done now where not enough to give flap - when incision made right (Lisson<sup>11</sup>) divide in two and cut up fascia and skin. Superficial muscles retract - divide those next to bone making 3 steps -

Modify the kind of operation to suit case Cardinal rule muscle enough to cover bone and skin enough to cover muscle to make little calculation the ant skin & mus take little piece of tape get the circumference of thigh suppose 9 in double tape and get deane and half it to get more painful in large thigh cut even and can get all the vessels too without danger of lig slip in thin leg flap - shave part to stop the adhesive plaster from sticking elevate limb apply tourniquet not tightened

Knife Incubator and lig - Retractor -  
scissors and bone nipper - Dressing simple  
Roller band adhesive plaster but in warm  
water and oil silk surgeon stands out  
tumb - Cut ~~the~~ skin then Muscle the bone muscle  
the art and if necessary vein expose the  
stump - for  $\frac{1}{2}$  hour close the wound if on  
the upper 3 of third transversely if lower  
no consequence - work always to insertion  
of muscle and fix so as not to let the bone  
stick out by their contractions. Begin in  
dressing the roller high up - as soon as  
weight is taken off stump the ~~off~~ pass the  
roller so as to keep stump down, top  
dressing little oil silk - let remain as  
long as comfortable, about 3 days if not  
good surgeon - fix middle with stump  
better cut a place in silk to wrap  
the limb - Flap - Single and double  
introduced by Linder double by French  
object in single flap one or two cut  
better as a general method may be  
performed in every case - Performed by  
cubem may stand or in outside feel  
for out edge of tibia and fibula call  
stump - not  $\frac{1}{2}$  draw but whole  
4th circumference double cut directly  
across limb feeling margin two bands  
the cut between two - change position  
Knife transfix and secure bone then  
pass Knife between bone and separate  
it and mus. 3 tail Retractor and  
passing on tail between bones draw up  
saw on tibia at first then tilt so as to



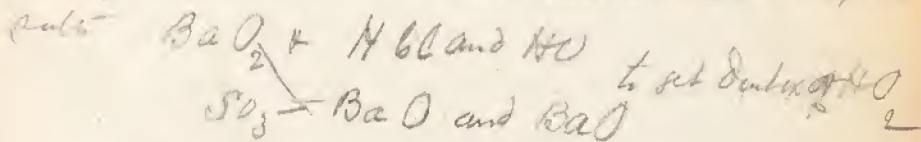
Cut fibula - double flap different in  
amplitude than Rush Knife in cut  
parallel to axis of bone far enough (Rush)  
Grasp bone etc on opposite side pass  
Knife to place of cutting point of Rush  
in other cut - divide all muscle  
fibers which adhere to bone - saw  
bone off - oval stump some only by  
cutting with Scalpel and then end  
like circular - only in Hip joint in  
rush all can be done by the  
alone -

To 2 Latent Transverses. And  
 a Bond of Cap's on line lig between  
 the Olegue process and sym-  
 metry - ~~Bo~~

For convenience Chemists secure Hydrogen  
 as having the smallest eq vol to represent unity  
 consequently all the other combining vol are  
 greater than Hydrogen - all are equi-  
 ratios or exact multiples of each other.

Danton the discoverer of Atomic Theory he the  
 one who first adapted the hydrogen scale

Berthollet's Scale peculiar in giving all  
 the eq volumes -  $H + O$  going to form water are  
 converted into one vol of steam weigh 9 -  
 water unites 2 parts as  $H_2$  and  $O$  and solution the  
 first each the water falling on solid form  
 always called water of crystallization then  
 in crystals etc do not contain water pure  
 Anhydrous salts the other do and are called hydrates



Nitrogen - in air. obtain it from this compound  
 from filing and sulphur with about 1/2 and 1/2  
 nitrogen - Phosph. In sand - Berzel 1772 will  
 with sulphur or with put out Azote. Synonym.  
 4 parts in bulk of Nitrogen in atmosphere is  
 present in animal substances combining vol  
 of it is 1/2 vol then 1/2 will combine with 1/2 vol  
 of O



15 wt is 3626 condensation is not instant  
 here hence di. condensation is equiv - to  $2\frac{1}{2}$  wt  
 by  $\frac{1}{2}$  O - but is always constant of CO one part  
 in  $2\frac{1}{2}$  of CO<sub>2</sub> -  $\frac{1}{2}$  part in 1000 - a trace of  
 chlorine in air - is stand of sp. gr of mass  
 hence is temp. & sp. gr of H.O. is 1. hence sp. gr  
 of OX - is ~~1.44~~ 1.44 by 8) 1.165 of nitrog is  
~~14.4~~ 14.4 for H or ~~0.250~~  
 1 14.4:14::1:1 - + 14.4:16::1:1 - 1.111

### Hans Endometrium.

Mitchell Softening is the only change supposed to  
 occur in mucous membrane in consequence of  
 inflammation. Chronic inflam presents brownish  
 appearance, a stony nature of the dry fluid color  
 in acute inflammation. Mucous Membrane may  
 be affected from Emphysema or dropsy due  
 from blood vessels & secreted by mucous glands  
 glands may be increased not inflamed  
 though after inflammation attacks them  
 here they have a central depression which  
 comes in consequence of being down of the  
 surface. Ulcers may be conformed with  
 erosions of stomach from own liquid.  
 their ragged edges and deep ulcer stain  
 thickening and want of color.

Simple Erythematous Inf. Stomach.  
 Endogastria is rare, generally the  
 effect of an irritant - produced by taking  
 large quantities of food in stomach and  
 lying down. Symp. varies from sense of  
 weight to violent burning pain - pain on  
 pressure and on change of position often  
 along the dorsum - Sympathetic pain should  
 not deceive us - appetite sometimes good but  
 constant is of food to produce pain.

## SPERMATORRHOEA.

Definition.

Causes.

Symptoms.—1st and 2d stage.

Diagnosis.

Prognosis.

Dissection.

Treatment.

Intestines, bowels and vomiting of contents  
and then secretions sometimes "excellent" cases in  
Herd - bowels continue unless violent - is laxated  
the tongue should not be inflexible, some  
times red at edge and tip gradually  
becoming yellow and covered - often rough may  
be entirely free from any inflammation.

Symptoms. Symptoms - Circulation at first  
inflammatory - and hence heat and dryness  
the tongue may have heat independent  
in consequence of excited colored  
puncta. Skin may be dry - or moist be  
some others symptoms make them appear  
sometimes nervous symptoms precede the  
increase of pulse respiration may be  
hurried - allays have nervous symptoms  
very prominent - duration of infection may  
be from one hour to some days  
metastasis may be produced by ce  
sympathetic circulation - diagnosis very  
poor - may mistake as syphilis - that  
prognosis will be according to



*would sometimes give a great deal of trouble hence may  
 have to tie it. This arises, in consequence of the valves being  
 broken down and it will bleed very profusely there is great  
 risk of tying but it gives patient better chance than if we  
 let him now hang on, may often stop hemorrhage from the  
 bone by putting pieces of lint soaked in cold water*

## FOURTH DIVISION.

### AMPUTATION.

*Definition. always pay attention to every rule which may  
 Importance. same blood -*

History.

Classification.

*Methods.
 

- 1. Circular.
- 2. Flap, single and double.
- 3. Oval or oblique.*

*Time.
 

- 1. Primary.
- 2. Consecutive.*

*Place.
 

- 1. In Continuity of limb.
- 2. In Contiguity of limb.*

*Circumstance.
 

- 1. Operations of necessity.
- 2. Operations of choice or complaisance.*

*Spot.
 

- 1. Operation of necessity.
- 2. Operations of election.*

Causes demanding the operation.

Prognosis.—Favorable circumstances.

1. Youth.
2. Habit somewhat reduced but not too weak.
3. Cheerful temperament.
4. Good general health.
5. Simple disease or accident.
6. Part at some distance from the trunk.
7. The upper extremity.
8. Circumstances of the patient.

Statistics of amputation.

Preparation of patient.

Instruments required.

Dressings.

Accidents.

*Accompanying.
 

- 1. Hemorrhage.
- 2. Excessive pain.
- 3. Fainting.
- 4. Convulsion.*

*bleeding if necessary*

*Secondary.
 

- 1. Hemorrhage.
- 2. Inflammation of stump.
- 3. Conical stump.
- 4. Abscess and sinus of stump.
- 5. Necrosis or caries of bone.
- 6. Cystitis.
- 7. Phlebitis.
- 8. Metastatic abscess.
- 9. Gangrene.
- 10. Hectic fever.*

*Hemorrhage, fainting & convulsion  
 favorable circumstances are*

Healing of the stump and changes which take place in the different tissues.

Modification of the constitution.

# Amputation.

Primary amputation - performed as soon  
after the accident as possible.  
as soon as reaction amputate. and  
before fever sets in - Cordus - the  
diverse while supp going - and a  
tritic present - some injurer - pay  
point ed - between fever and  
reaction - though, from cutting  
in small joint - the profound  
poopered, In opposite conditions  
continually prepared - Amput-  
through Bone Object - is can't  
get get enough soft part - have  
tend stump - creating - Cervical  
stump more obdurate flap -  
wave well circumstance, for  
one man in 4 dies in all amput-  
don't undertake lightly - only  
when incapacity succubates  
Prog. young adult - better than  
adult and adult - than old  
man - R. Habit - one rather in  
3 - 4 better have some local disease  
has better - The farther from trouble  
better. C. Circumstances. once  
was custom to prepare for opus  
open towels give him ether if  
want to narcotize give him a  
good diet



accidents - Great Hemorrhage  
very serious. Complication possible  
as quiet as possible till torn  
dip sponge in ice water and  
hold to stump take astronjant  
and dip a piece of lint apply  
on stump. 2. Excessive pain  
control by strychnine - 3. Fainting lie  
very quiet OK. Stop hold head  
down and bring on reaction -  
4. don't go on whole Convulsions  
sprinkle face procton Stim  
brandy - Second Accidents

1. Wound come on tile leg sup-  
purr. Try camp styptic - cold  
where limb is found cut and  
take up large vessel - If band  
constit - proper size limb cut  
best styptic powder Ratin.

Inflam - purge blood been  
cold, Always keep muscles tense  
down by band. If abscess - as soon as  
have place - open if necessary

Secondary, Hem nearly always the fault of the  
surgeon who closes the wound too soon - Suck  
rozing or profuse bleeding, in first don't take  
of dressing apply ice and use Tommy net for  
10 or 15 minute, if necessary tighten a second  
time, If profuse put on Tommy net open wound  
and tie vessel otherwise will not have Union  
by 1st int -

Inf of Stump - generally find Symp feverish from  
the very commencement in second dressing  
the flaps are red & crusted and distal part. The  
is an acid serum, in all probably - the  
patient will have dyspnea - Inst actually bleed  
Neutral mixture - &c. - In hospital the scar  
has a tinge of blue in it, must be very cautious  
in abstraction of blood good diet and allay irrita-  
by Opium &c. Dress Stump with warm practice  
and apply early Nitric acid when ulceration  
comes on - Conical Stump made by firm band  
~~not~~ tight and retraction of skin the bone sticks  
out - Must amputate again in some cases  
ought never to have - Some result of inflammation  
from escape of matter - deposing at most distant  
part a piece of lint - began to cure by comp  
and roller if fails push up the long piece  
dipped in No. 3 - if this fails slit up the  
sinus and use stimulating applications -  
Necrosis - often made by cutting of edge of  
bone don't do it - bad surgery - marked  
by dull throbbing pain in middle of Stump recurs  
about 3 weeks greater at night Rind has  
testes, treat by antiphlogistics & doct they  
remedies. If bone is dead must amputate  
again. Cystitis muddy urine - this often comes  
on after large operation treat by Gen principle  
Phlegmasia but by tongue furred fever and rigor -  
and after intense rigor - hard cord and effusion  
of plasma. delirium - require prompt treat-  
ment and general ant - but only remedy is a  
plaster around whole stump don't bleed from  
above for in traumatic phlegmasia or pyemia  
it kills the opened vein Metastatic abscess



Coming on with difficulty of respiration pain in side  
or head ache only remedy is Inlet of Aconite Nat  
thel at large blister - Rub up the forces  
as much as possible - Gangrene don't reabsorb

Relieved Remittent - Solar & Paludal -  
miasmatic remittent - I supposed not to  
be owing to malarious - distinguished by many  
bad times. can't give quina for a while is  
Disease rapid terminating in 2 or 3 days  
often - rarely before of day and when 2  
ingestion. Fever - may be remittent or  
intermittent - The term is only a distinction  
of the symptoms - many of the fevers  
paludal - may be very or nearly long in  
duration - but after great prostration  
of the patient - the termination of the fevers  
sometimes the head symptoms occur in  
this interval to a third - when efflu-  
via symptoms produce death - being  
able to death. Fever - may have onset  
of pleura or bronchitis or pneumonia - or  
pneumonia or have suffocation in this  
interval - often also enormously  
enlarged - often see this form  
about - speaking from where the  
secretions are so rapidly becoming  
Cerebral function with absorption around  
often assisted by removal of fluid  
by the disease the mind may be lost  
but not in many cases delirium

head and bones become as an aching  
typhic and incessant for water will  
often - seldom assume formidible  
shape until 2nd or 3rd attack

until the red line of demarcation is formed  
Hectic comes on after two or 3 weeks may send him  
change locality and comes back see pg 208

are usually of malarial action sometimes  
endemic or epidemic - Children attacked - rarely  
over 30 suffer - Mortality - very fatal -  
1/2 cases in infants sometimes born with  
fatally very great liability of pneumonia  
Complication - death more certain - Erys.  
may have complications -

Treat - Large doses of quinine have been  
given good note in book paper book

Rosolia to recognize and treat not as a  
disease of skin but treat according to  
the period of life - worms dentition - disordered  
menstruation <sup>purge</sup> warts on limbs pale around  
top and reddish base often found with  
Rosolia at the same time - made by the  
congestion of capillaries, this congestion may drive  
the blood out of the tumor. Accumbent Aug.  
sometimes is a pure disease of the skin  
when this is case I add 1/2 oz of water  
Chloroform or cooling lotion - for  
the pain in Chills - warm bath by skin  
relieving erysipelas  
of skin

### Erythema Simple

Inflammation of skin - Erysipelas is a  
specific inflam - Erythema is not

Some confound with mild form of Erysip.  
is a bluish continuing few hours a several  
weeks according to periods. the summation  
in resolution of scales etc. (most simple  
kind is made by a blow may pass to  
phlegmonous. by rubbing together of parts  
arising from contact is 2 - Intertrigo  
Erythema in little or large patches



The form of E occasionally suppurating  
called Phlegmonous - Circumata  
and many more - in things or well  
defined margins - flaying E - faint when  
one hand appealing on hands aris  
or Reddening ery - Some forms nearly alleg  
occur in persons having a Constitutional taint  
as Erythema - Chronic is most difficult to  
manage occurs generally in those who  
use the hand in the mechanical  
operations. Treat - Ery Ery - Ery generally  
accompanied with oedema - of limbs or  
anasarca - often found in children not  
clean use powder to absorb the acid  
from Scurched sage etc and animal  
Charcoal - Calamint - or Zinc. Carb. Imp  
great thing to keep parts perfectly clean  
or if the thing is sensitive Fowlers  
solution - Ery Intertrogo striking plaster  
and hot water - bleeding mercurials and  
Iodine grv lotions and grease if they  
irritate use powders - Nitrate silver from  
10 to 60 grs to 3j

Erysipelas - An erytensive inflammation  
of skin sub cut tissue or muscle  
Simple Erythematous Phlegmonous -  
Simple has little bubbles under the skin  
Tread ache and sometimes furious delir  
ium 3 venous Erysip - gangrene - skin  
shotten skin shining look - affect  
skin differently in different subjects always  
of specific, when caused by forced tongue  
hard pressure (no inflammation in  
which blood comes back so suddenly on  
removal of pressure as in Erysip

CONSIDERATION OF THE DIFFERENT GENERAL METHODS.

1. Circular Amputation.

*History.*

*Object had in view.*

*Manner of calculating the flap.*

*Manner of dividing the tissues.*

*Reversion of the flap.*

*Instruments employed*

*Advantages of the operation.*

*Cases to which it is most applicable.*

2. Flap Operation.

*History.*

*Object had in view.*

*Manner of calculating the flap.*

*Manner of dividing the tissues.*

*Instruments employed.*

*Advantages of the operation.*

*Cases to which it is applicable.*

3. Oval Operation.

*History.*

*Object had in view.*

*Manner of calculating the flap.*

*Manner of dividing the tissues.*

*Instruments employed.*

*Advantages of the operation.*

*Cases to which it is considered applicable.*

4. Operation in Continuity of Limb.

*History.*

*Object had in view.*

*Manner of dividing the tissues.*

*Instruments required.*

*Advantages of the operation.*

*Disadvantages.*

*Cases to which it is applicable.*

5. Operation in Contiguity of Limb.

*History.*

*Object had in view.*

*Manner of dividing the tissues.*

*Instruments required.*

*Advantages of the operation.*

*Disadvantages.*

*Cases to which it is applicable.*

SPECIAL AMPUTATIONS.

1. *Of the Upper Extremity.*

These consist of amputations of the Phalanges, metacarpo-phalangeal articulations, metacarpal bones, separately or collectively, metacarpo-carpal joints, radio-carpal articulations, of the fore-arm, elbow-joint, arm, shoulder-joint and shoulder-blade with the arm.

2. *Of the Lower Extremity.*

These consist of amputations of the Phalanges, metatarso-phalangeal articulations, metatarso-tarsal, ankle joint, leg, at the knee joint, thigh, and hip joint.

RESECTION OF BONES.

*Definition.*

*History.*

*Classification—*

1. Those practiced in the continuity of a bone.
2. Those practiced in the contiguity.
3. Those in which the bone is extracted entire.

*Cases calling for resection.*—Caries, necrosis, osteo sarcoma, spina ventosa, compound and comminuted fractures, gunshot injuries, and compound luxations.

*Counter indications.*

*Prognosis.*

*Time of performance.*

*Instruments and apparatus.*

*Special application.*



Chlorine - Best obtain from  $\text{NaCl}$  &  $\text{H}_2\text{SO}_4$   
 $\text{NaO} \cdot \text{SO}_3$   $\text{MnO} \cdot \text{SO}_3$

or  $\text{NaCl} + \text{MnO}_2 + \text{SO}_2 = \text{Cl}_2 + \text{NaO} \cdot \text{SO}_3$   
 $\text{MnO} \cdot \text{SO}_3 - \text{Cl}_2$  &  $\text{H}_2\text{O} = \text{H}_2\text{SO}_4$  &  $\text{H}_2\text{O}$   
 yellowish green Schuler 1774 - 19 vol 1  
 is an insipid gas - Compounds  
 chlorine generally called chlorides

Compounds with  $\text{O}_2$  - Hypochlorous acid  
 chlorous acid Chloric acid and  
 Hypochloric acid - made by  
 $\text{H}_2\text{O} + \text{Cl}_2 = \text{H}_2\text{O} + 2\text{HClO}$  -  $\text{Cl}_2$   
 yellowish green gas = 44 - 2. Chlorous  
 acid ( $\text{ClO}_2$ ) made by  $2(\text{RO} \cdot \text{ClO}_2) + 2\text{SO}$   
 $= 2(\text{RO} \cdot \text{SO}_3) + 2\text{HClO}$  again  $\text{H}_2\text{O} + \text{Cl}_2 =$

$2\text{HClO}$  and  $\text{RO} \cdot \text{ClO}_2$  is a yellowish  
 chloric  $\text{ClO}_2$   $\text{RO}$ ,  $\text{HO}$  and  $\text{Cl}_2$   
 never been obtained from primary water  
 & Hypochlorous acid made  
 of - from the residue of the  
 process for obtaining chloroform

Dissaut's says in Egypt of scorp  
 that Tart Ant with cure the  
 first stage - Nitrate Silver in Sol of  
 $\text{H}_2\text{SO}_4$  to  $\text{H}_2\text{O}$  with cut short when  
 taken internally acetate of lead and  
 sand - very good dry powder Calam  
 & Chalk  $\frac{1}{2}$  to  $\frac{3}{4}$  - may have rubbed  
 according to the pulse sometimes



General Remarks. Heat much - effusion - sometimes  
 warm water allowed to cool to proper temperature  
 or sulph of zinc - They cannot generally be used  
 because of the gastric distress  
 but sometimes their good effect over-  
 balances their bad - patient often not  
 delirious but pain in front of head very  
 intense - eruptions cold - to hands feet & lower  
 extremities - blood letting local  
 of face least till 3 day - great benefit  
 from blisters to wrists and ankles -  
 great irritability of stomach a new &  
 symptom in this disease - hence in  
 early healing supposing reason to lack  
 of rest and - often organs very much  
 contracted andinflamed - salivary bot-  
 tom - to relieve stomach Plumbago  
 acid -  $\frac{1}{2}$  gr once daily here - cold water  
 not - general opinion of Physicians is that  
 blood is not useful - in some epidemics however  
 it has not appeared to be useful - Sulph  
 of Quina may be tried - Merc -  
Great merit of second stage. The symptoms which  
 attend this stage seem to be admissible -  
 Argente Mercur -

4th Hyoscam & Opium are the  
 narcotics. the mineral acid is very  
 good

# Dunghison's Classification of Diseases of Chest.

I Involving mucous lining	Laryngo Tracheitis Bronchitis	General Capillary
---------------------------	----------------------------------	-------------------

II Cells plus Areolar Tissue	Pneumonia gangrene Edema Emphysema Cancer Melanosis Tubercle.
------------------------------	---

Essentially Nervous.	Spasm of the Glottis. Asthma Whooping Cough Hiccough
----------------------	---

III Involving Pleura	Pleuritis Hydrothorax Pyothorax Pneumothorax
----------------------	---

IV Leading to the non-invasion of Arterial into Venous Blood	Apnœa
--	-------

3 large - pale compress and irregular  
 sometimes only 32 or 3 very small signs  
 entrance pinkish pale and contracted  
 pale - Hippocratic skin loses its  
 yellow appearance stomach retains  
 nothing and gives black vomit -  
 or coffee ground vomit - Bowels give  
 away and eject a black matter -  
 brown hazes supervene - blood coming  
 from surface - in consequence of  
 depression of power in operations -  
 they become complicated in various forms -  
 brain often attacks lungs - actually fast  
 might have been taken for case of poisoning  
 supposition on more certain  
 sometimes patients die as late as 20 day -  
 when the signs - observed on 1st day  
 but gradually recovered - Markedly  
 moderate delirium in 100 - 3 out of 4 - general  
 average one in 25 among children suffer  
 from - suffer less than men -  
 among physicians - less fatal - Red Black and  
 yellow less visible than fair skin  
 Residence a remarkable effect - in presence  
 don't occur 2nd time very often -  
 even residence in hot climate great benefit  
 in overcoming its violence

Reminders in prognosis - Pathology

12.5  
 1.6  
 1.0  
 1.0  
 1.0  
 100.0



great malice peculiar in expression  
of eyes of tearful and pink very delicate  
no other disease showing both sad and  
sad - stomach does not seem to retain  
anything very harsh have been vomited  
greenish liquid at some times constipation  
sometimes rapid some  
slow pulse first frequent full &  
slow becomes quick and hard  
tongue smooth or soft or flabby &  
after a time acid at tip and edges  
thick according to disease - may be a  
burning sense at stomach -  
bowels usually constipated - last shows  
153 days from 36 to 45 years -

2nd Remission of nearly all  
symptoms - pulse not yellowish  
colorless - rest great and trunk  
bowed hard torpid patient of the old off  
from domestic and from 153  
from 24



and from the - These actives parastic and Cytoplasmic  
will sick for release the first thing for  
stomach full of Alkalies - Inf and ending  
of all abdominal viscera - animal dies  
when introduced into stomach cause no bad  
effects usually speaking parastic only  
dangerous at night - the plant therefore  
must lose their poisonous properties by being  
dried - the disease of many visible fungi  
often simulate in their symptoms these not  
concrete

Yellow Fever - commonly almost bluish yellow  
or Black vomits putrid and Ship Fever - If put  
into the - Rush & Bellows Remittent Fever  
one paroxysm - 3 stages - usually in 7  
days - in fatal cases yellow skin and  
Black vomit 1st Stage active Fever  
2 most disordered and almost well  
apparently - 3 - Collapse -

1 - The paroxysm slight chill  
pain back of neck - hot dry skin great  
gastric incision pain up & gas  
the fever in 24 hours

Median line from tip  
to chin and ground of ground  
blow opens in neck divided  
into 2 portions by a line of  
inf. boundary of 1st strong giant  
triangle and great post triangle  
apex at base of low 2. The  
base the clavicle approx.  
mastoid process — Hyostacanth  
muscle on sides with stylohyoid  
this forms the submax triangle  
middle line of neck boundary of the  
sternopost triangle 3rd 3rd  
ant. side and post belly deep  
and called deep coracohyoid  
3rd triangle from ant. belly  
med. Hyoid by middle line  
of neck post belly  
is the inferior great coracohyoid  
triangle —

Thomas J. Simott M.D.  
William McKeugan



Liniment; Ammon. Comp.  
 1st Lot of Ammon.  $\sqrt{3}$   
 2nd & Camphor  $\sqrt{34}$   
 3rd Potash  $\sqrt{3}$  } Red  
 4th Potash } Phan

The University of  
 the College



Thomas  
 Thomas J. Emmott  
 Thomas

Thomas J. Emmott  
 Mitchell

1844

see pg 88 for preparation of mercury

C. B. Rodgers -

ST. MARY'S HOSPITAL  
MEDICAL LIBRARY

Nitrogen  
Carbon  
Hydrogen  
Oxygen

(Order of  
Elements by  
I. Berzelius)

20

ROSO<sub>2</sub>

14 Syr. Senega - 3j.

Syr. Dulcis.

M. Spirit. Camph. 3j.

Ess. Anisum. 3j.

M. Spirit. 3j.

To be used 4 or 5 times every 24 hours

14 Bals. Tolu. 3j. Mille

Syr. Senega 3j.

Syr. Dulcis 3j.

Syr. Senega 3j.

M. Spirit. Camph. 3j.

To be used 4 or 5 times every 24 hours



Spirit Thomas J. Dunnett  
Thomas J. Dunnett

1. *Alumina*  $\text{Al}_2\text{O}_3$   
 2. *Silica*  $\text{SiO}_2$   
 3. *Iron oxide*  $\text{Fe}_2\text{O}_3$   
 4. *Calcium oxide*  $\text{CaO}$   
 5. *Sodium oxide*  $\text{Na}_2\text{O}$   
 6. *Potassium oxide*  $\text{K}_2\text{O}$   
 7. *Magnesium oxide*  $\text{MgO}$   
 8. *Zinc oxide*  $\text{ZnO}$   
 9. *Copper oxide*  $\text{CuO}$   
 10. *Lead oxide*  $\text{PbO}$   
 11. *Barium oxide*  $\text{BaO}$   
 12. *Strontium oxide*  $\text{SrO}$   
 13. *Yttrium oxide*  $\text{Y}_2\text{O}_3$   
 14. *Lanthanum oxide*  $\text{La}_2\text{O}_3$   
 15. *Cerium oxide*  $\text{CeO}_2$   
 16. *Praseodymium oxide*  $\text{Pr}_2\text{O}_3$   
 17. *Neodymium oxide*  $\text{Nd}_2\text{O}_3$   
 18. *Europium oxide*  $\text{Eu}_2\text{O}_3$   
 19. *Gadolinium oxide*  $\text{Gd}_2\text{O}_3$   
 20. *Terbium oxide*  $\text{Tb}_2\text{O}_3$   
 21. *Dysprosium oxide*  $\text{Dy}_2\text{O}_3$   
 22. *Ytterbium oxide*  $\text{Yb}_2\text{O}_3$   
 23. *Erbium oxide*  $\text{Er}_2\text{O}_3$   
 24. *Thulium oxide*  $\text{Tm}_2\text{O}_3$   
 25. *Yttrium sesquioxide*  $\text{Y}_2\text{O}_3$   
 26. *Lanthanum sesquioxide*  $\text{La}_2\text{O}_3$   
 27. *Cerium sesquioxide*  $\text{Ce}_2\text{O}_3$   
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 100. *Praseodymium sesquioxide*  $\text{Pr}_2\text{O}_3$

[illegible]

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